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way to gain a correct knowledge of California, and that is by personal observation and careful study. As we have traveled continually, for several years, and visited every section of California, in the interest of this journal, we will emivaror to give a correct description, in the following articly:

By lacking over the map of the world, we find

California situated on the Pacific Ocean, between let, 32 degs, 20 min and 42 degs, north, and lon. 114 degs, 20 min, and 124 degs, 25 min, west. It is bounded on the north by Oregon; cast by Norechy and Arizona, following the Sierra Nevada Mount-

rugged, its summit being generally above the region of purpotnal snow, numbras but few of those very ole-vutvil passes. It is 560 miles long and 80 miles wide, with an altitude varying from 5,000 to 16,000 Nearly its whole width is occupied with its western slope, which descends to a level of 300 feet above the ocean, while the eastern slope is only five westx miles wide, and termuntes in the great basin, which is from 4,000 to 5,000 feet above the sea level. The Coast Range, as its mane in-divates, runs along the reast. This range aver-ages from 2,000 to 1,000 feet in height. Be-

which extends northwest towards Mount Shasta. The platean is an independent lossn; its waters do not leave it, but flow into a chain of lakes located in the extreme north-east corner of the State.

The great basin of Utah, a mountainous, harryn tract of land, having an elevation of 4,000 to 5,000 feet, with no outlet for its waters, extends into the south-east portion of California. This region is ex-ceedingly unid andsterile, and is cut up by numerous irregular ridges of lare, rocky mountains, with intervening valleys of saudand rolemic matter. On the south east barder is a district about 140 miles



BIRD'S EYE VIEW OF SAN FRANCISCO.

# CALIFORNIA.

General Outlines and Physical Features-Mountains, Valleys and Natural Wonders.

Agriculture - Herticu ture - Timber and Mineral Lands-Soil and Climate.

Railroads-Commerce and Manufactures
-Resources and Advantages. Population-Present and Future Prospects.

[By the Traveling Agent of The RESOURCES.]

A great dead has been written about California, for the past 35 years, ever since the discovery of gold, on the 19th day of January, 1818. No other country, on the face of the globe, has had such a metoricity as Culifornin possesses. A great deal has been said, by parties almost whelly anacquanted with this wonderful country, which, of course, is

nine on the line of lon, 120 dees, west to lat, 39 | tween the Sierra Nevada and the Coast Range has degs, thence swith-east to the Colorado river, on the 35th parallel, and thence by the course of that river; south by the Mexican Territory of hower California; and west by the Pacific Ocean. The outlines of this State are very irregular. Its general direction lengthwise, is north-west and south-vast, and in line drawn through the center, followvast, and it mis drawn through the center, belowing the curves of its eastern and vestern houndaries would measure about 770 miles. The greatest breadth is about 330 miles, host breadth, 150 miles, and the average is about 230 miles. In size it is the second State in the Union, its area being 158,366 square miles. In 1880 it had a population of 789,577, exclusive of Clanese and Indians. Geographically it is divided into 52 counties.

The most striking feature in its physical geo-

eranly in the existence of two great ranges of mountnus, running north-cost and south-west, and generwith this wonderful country, which, of course, is utly parallel, called the Sierra Nevada and the Coast unreliable information. In fact, there is but one Range. The Sierra Nevada is the most lefty and

The Great Hostn.

Byaring the sharble many of the Sucramente and

Sun Joaquin valleys, although really lost one get graphical formation. This cally extends north, and south, about 100 miles, with an everage breadth of from 50 to 60 miles, and presents veidences of once heing a vast lake. It is drained, from the north, by the Sacramvuto, the brigest river in the State, and from the south, by the Sur Josephin, the longest river in California, which, after meeting and uniting in the center of the basin, break through the Coast Range. Along the great rivers the valbys are generally low, lovel, and extremely firtile rising into undulating slopes and low hills as the mountains are approached on either side, and broken on the oast by numerous spars from the Siorra. At on the auxiliary minerans spins read the corth and, between list, 40 degs, and 42 degs, is a high tidde-hind or phiteau, about 110 index long, and 5,000 feet above wearn lovel, lying between the main chain of the Sierra Novada, and a brunch

lone by 75 miles wide, which belongs to the Coloring by forming ways, and is known as the Mediure desert.
The Coast Range is divided, in its length, by long, mirrow, fortile valleys.

Of the total army of the State, one fifth is desert, and two-fifths are monitonis until for tillage, but with extensive districts valuable for pasture, tim-her and minorals, leaving two-fifths susceptible of cultivation - though some portions of it can not be used with profit, until irrigated, protected against overflow by dykes, and drained of its superabund-int water, or made accessible by railroad. The State has 100,92,640 acros, including 43,32,622 across of misurveyed public binds, and 57,550,048 across of surveyed public binds. The surveyed bands include 8,000,000 across of private grants and

1,500,000 agree of swamp hinds. Culifornia has a population of lass than 500,000 persons, synttered over a territory larger than England, Irsland, Scothard and Wales, yet the total counted production of the mines, forms, monitor-

tures, vineyards and orchards, carried on these persons, amount to over \$150,000,000. The people have nearly \$150,000,000 in savings and other hanks, and various corporations pay dividends of about \$30,000,000. The yearly sales of real estate amount to \$65,000,000. The coinage of the mint, in San Francisco, la \$50,000,000. The grand total value of the precious metals of the coast amounts to more than \$80,000,000 ananally, principally centered in San Francisco.

Forty-three years ago, there were lint a few unssinn gardens and small bands of cattle and horses here; thirty-three years ago the pioneer ininers had begun their work with pan and pick, rocker and long-tom; twenty-eight years ago, a few men, caited enthusiasis by some, erszy by others, began to farm and plant orchards in valleys. and make homes; twenty-three years ago railroad building was commenced, and only twelve years building was commenced as a building was commenced and unionitural interests of the State began to develop with energy; and the planting of orchards received an impetus which has continued with accelerate eratest speed ever since. These few people I made California the first State in the Union in wheat, harley, wine, wool, gold, fruit and quicksliver; and California is, to-day, the fourth State in the Union, according to popu lation, in her manufacturing industries.

# Commerce

Among the primery and fundamental claims which California tras upon the attention of home-seckers, her commercial situation may be mentioned. The communities, which are near the sea shore, have advantages over those farther inland, as they thus obtain healthy competition in carrying their products. There is no reason to doubt that the same growth which has built up such prosperous cities as Boston, New York, and other cities along the Atlantic shores, is in full operation here. commerce of the Pacific, and of the west coasts of South Americo, Mexico and Cencoasts of South Americo, sterico and Central America are centering here. The great nation, of which we are a part, must draw its share of the precious commerce of the Orient through these gates. Whetever dominions wide-resching and powerful, is yet reserved for the English-speaking race in the sweep of the Pacific, and about its coasts, no student of the arth's surface can fail to believe that the largest portion will be in the hands of Coast men, from Alaska to Mexico. The com-mercial center of this territory is about the bay of San Francisco. Here, is the barbor, the best location, the many beginnings, the associsted capital. Other cities will spring up along the northern and southern coast, win commercial place and make rich men hy the score; but here is the metropolis, which, if the men of California are true to themselves and rightty use their advantages, may some day bo greater than London, more keenly alive than Paris more picturesque than Venice, more crowded with temples and works of art than was Rome in her palmiest days.

# Soll and Climite.

The second great advantage which this coast presents is its variety of soil and climate; hence its production. The climate of California, in different parts, varies greatly, irrespective of the great range of latitude 9 % degs., through which the State extends. It differs widely from that of the Atlantic slope, in the same latitude, and probabty from that of any other country in the world. Properly speaking California bas several climates, the basin of the Sacramento and San Joaquin having one, the western stope of the Coast Range, north of latitude 35 degs another, and the portion of the saturde so degs another, and the portion of the State south of 35 degs. still another. The cli-mate west of the Coast Range is different from that east of the same range, which is less than 60 miles in width. At San Francisco the mercury seldom rises above 80 degs, in the dry, or falls below 40 degs., in the wet season. Snow seldom falls here, and the winters bear a strong reaemblanceto the Indian summer of strong resummance to the Missussippi valley. It is doubtful if any other country in the world has such cool summers and warm winters. The coolness of the summer nights is attributed to the extreme clearness of the atmos-phere tavoring radiation. The wind blows for a part of each day from the north and north west along the Coast, nearly the whole year. In the interior the extremes are much greater, the mercury the Sacramento valley often rising in summor to 110 degs., and along the south-eastern line of the State se high as 140 legs.; but, owing to the extreme dryness of the atmosphere, this great heat is not prostrating, as on the Atlantic slope, the nights heprostrating, as on the Atlantic stope, the rights heating cool and refreshing. The climates of central California may be grouped into coast climate, climate of the interior, and ethoute of the Sierra mate of the interior, and common of the sample slope. The first has a small range of temperature, and some fog and sea breeze. The second has a greater summer temperature than on the coast, a dry, northerly whal at times, and no fog. On the Siorra alope, also northward in the Coast Range the climate, as we ascend, approaches mure and more to that of New England, until we reach the snow line. In many counties, 30 miles\*

travel takes one from where oranges grow to where onty the hardy fruit-trees prosper. The general features of these three elimates, of which we have spoken, mingle, or are interchanged, according as willeys open toward the sea, or away from it, or slope northward or south. In every county in the State, except a few along the upper Sierras, the vatire range of temperate zone, fruits, grains, and other products, together with many of the semi-tropical fruits can be grown with easo. Specimens of wild plants of the entire Atlantic Coast, from Maine to Florida, with the flora of Japau, China and the Himalaya region, can easily be made to thrive in an arboretum, in California. tralis contributes largely to our gardens, and Mex ican, Chilean, and Peruvian plants find congenial homys in California soil. The horticulture of the future will be one of surprising variety, as the horticulturist becomes better acquainted with the soil, which is of all sorts and characters.

## Sensons.

California has a rainy and a dry senson, the former nearly corresponding to the winter, and the

many parts of California where the rainfall is not ore than fro m 10 to 12 inches, on an average, and when it falls below this, artificial irrigation is usually needed. From Gushen to Caliente, 100 along the upper San Joaquin valley, the rainfall is too slight to secure crops in ordinary seasons, but the adjacent Sierras contain a cachment area of 4,000 square miles, with an average precipitation of over 50 inches. In this portion of Slate, large tracts of laint are situated as to be well irrigated at slight cost. The upper half of Califor nia has sufficient rain for the production of all kinds of orups, except fruit and grapes in the Sa ramento valley. No irrigation is required in the valleys of the Coast Range. A marked phenomena of the climate is the comparative absence of thunder and lightning. During autumn many of the rivers sink in the saml soon after leaving the mountains in which they rise. Vegetation dries up during the long, dry season. The soil, climate timber, cereals, fruits, and vegetables will be more specially noticest in the different county descriptions



SCENE IN THE SIERRAS.

latter to the summer of the Atlautic region. The rains begin at the north early in autumu, but do not fall in the latitude of San Francisco in any appreciable quantity until about the middle of December, which is the month of greatest rain. The ratny season terminates towards the ond of June, July, August and September are dry, 2.5 inches of rain having fallen in these months, collectively, in eightoen years. The average ratufull for, in Inches, the seasons and the year, at different localities, is:

PLACES.	Spring.	Sum'er.	Ast'ınıı	Winter	Yoar.
Sur Francisco,	7.01	.t3	3.81	11,83	21,41
Siernicento,		00	2.61	12 11	21,70
Rumboldi Bay		1.18	4.67	16,63	94 56
Fort Yidin,		1.30	0.86	6,73	9,15
San Diego,		0.55	1.21	6,60	10,43

Snow is very raro on the coast and in the valteys. and never remains for many days, except in the Klamath river valley, in the north-west portion of the State. There are many miluting towns high up in the mountains where the sunw falls to a great depth, and lies till late in the spring. There are quarters to one mile high. Over the shies of the State. There are many militing towns high up

# Natural Wonders.

First among the natural curlesities of California is the valley of the Yo Semite, with its surrounding cascades and minimum peaks. It is situated in Murisposa county, on the west slope of the Sierras. midway between its cast and west base, at an elevation of 4,000 feet. It is t42 miles, in a direct line, a little south of cast, from San Francisco, but about 260 miles by any of the traveloil rontes there, within a space of less than 20 miles long and 10 miles while, is probably presented more grand and heartiful sconery than is found in any similar area in the world. The valley grope contains about 8,400 acres, one-half of which is meadow land, and the whole is as tovel as a fluir. except at the sliles of the mountain walls, where the debris has fallen down. One can not resist the impression that this valley was, at one time, at the same altitude as that of the aurrounding mounts atus, and that by some univalsion of nature the valley had sank to the distance of about a nitle las-

the rim of the valley, at the depressions, there are waterfalls at various poluts—ctoven in all.
The water, from these falls, mainly form the Merced river, which runs through Some of these falls are wonderful and marvelous their grandour, sublimity and magnitude. The falls of Niagara, one of the wonders of the world are only t63 feet high, white the Ye Semite fall leaps down 1,600 feet at a single bound, where it fulls on a rocky platform, perhaps 30 feet wide then leaps down 600 feet more on to a similar rocky table, from which it makes another clear fall of 431 feet to the rocky debrie at the bottom of the valley, making a total of 2,634 feet, which is sixteen times higher than that of Niagara. More wonderful still is the teap of the Sentinal Cascade. about three-quarters of a mile to the front; it has a fall, in a single leap, of 2,275 feet. The eleven dis-tinct waterfalls, in the Yo Bennite vatley, are tabled thus: Cataract, 900 feet; Bridal Veil, 630; ite, 2,644 (first, 1,600; svcond, 600; third, 434); Vernat, 350; Nevada, 700; Bonth Fork, 600; Rayal Arch. 1.000; and Sentinel, 3,000. It is impossible

to describe Yo Somite so as to give one who has not seen it even a faint idea of its wonderful, strango and magnificent scenery. In the same section of California are the noted

# Illg Trees,

Of which there are several groves in the State. The most noted is the Big Tree grove in Calaveras county. At an elevation of 4,375 feet above the sea, and within an area of 50 acres, are 103 trees, 20 of which exceed 75 feet in cur oumference. They were first discovered in 1850, One of these giants has been felled; to accomplieb this task pump-boreing augurs were used, and the constant toil of five men twenty-five days; hat when thus completely severed, two and a half days lahor, with various mechanical appliances, were required to throw it from its broad base. This tree was 302 feet high and 96 feet in circumference at the ground, and its annular growth lines show over 3,000 years A house is thrill on its stump for theat-nd other entertainments. A splendid ricat and other entertainments. A splendid hotel is kept here in the grove. About seven miles south is what is known as South Grove. The other groves of these giants are one in Mariposa county near the Yo Semite valley. Just couth of it, in Thotumne county, is another, and still farther south, in the eastern part of Merced and Fresno counties another, and farther sonth still, in Tulare county, among the tatlest mountain peaks, is the only place in the known world where this timber is known to exist. The name given to the timber "Sequoias." It is a species of redwood, or "Sequoias." It is a species of redwood, or at teast it resembles the California redwood somewhat, and to Eastern people I can compare it the nearest to red cedar.

# Denth Valley,

One of the most wonderful and least-knewn countries on the continent, is situated in southeastern California, in Inyo county, and lies east eastern Camprina. In Joy County of nearly 100 miles. It is reached by traits that stretch across wide mesas of cacti and volcanio remains and over mountains that rise bare and lonely under a sattry and burning sun. This won-derfut valley extends for 100 miles north-east and sonth-west, and is from 30 to 40 miles wide. There is no other landscape that one can look so deeply into the interior of the earth as here, its surface being 280 feet below tho tevel of the ocean. Looking down from the monntain side, into this deep, wide, vast hasin, with its shining becook soda, salt, and borax, which cover thousands of acres, and blaze and shimmer in the steady glare of light biazo and similar in the according which pours upon them from a cloudless styllar blazing with the reflection of chemical deposit, left by the receding sya, that here once obbed and flowed, but where now scarcely a drop of rain falls, surrounded by barren, volcanic monntains, making this indeed one of the most wonderful places for the daring prospector or tourist to enter.

# Links Tallow,

One of the most remarkable boities of water in the world, lying ut an altitude of 6,128 feet above the sen level, is 23 miles long and 15 wide, in the form of a parallelogram, extending north east and south rest, partly in Catifornia, and partty in Nevala. The greatest depth yet found is 1,800 feet, and the rater is so clear that trout can be seen from 80 to 100 feet on its pentily bottom. Owing to the alti-tude and the rarity of the atmosphere, the mater has little buoyancy, and nothing is ever seen float-Ing on the lake, except the beantifut tittle steamers and pleasure and lishing boats; the bodies of persons drowned in this lake nover rise—are never sovn ngain. Lulo Tahoe is the great sanitarium of the Puette Chast, The mountains around it are from 2,000 to 3,000 feet higher than the lake. Near by, an the time of the C. P. R. B., is

# Dinner lake,

One of the toyollest likes in California, and for ground and subliane scenery is intequaled on the coast. Dipenorth from here, up in Plumas county, is Crystal lake, which is one of the natural wanders In the bottem of this lake may be seen large

forest trees, standing in hundreds of feet of water, undergoing the course of petrifaction. The formation of this lake is of modern date, and formed by a mountain sliding into the mouth of the canyon, which is now covered with water from the melting snow of the surrounding mountains. The petrified forest, 75 miles from San Francisco, where portions of nearly 100 distinct trees of great size, prostrate and scattered over a tract three or four miles in extent, are found, someon the surface and others projecting from the mountain side. The silicified trees appear, upon an examination, to have been conferous. A few miles north bring us to the

### Gersers,

One of nature's chembral laboratories, located about 110 miles north-west from San Francisce; it is visited by thousands of tourists, and is reached either nic Cloverdale or Callstoga, by rail, thence a short distance, by stage, over a picturesque route. A narrow valley or canyon is filled with fluwing hot springs, and the soil is covered with a ornet of sulphur, iron-rust and other uniners! dopesit, and filled with steam from the bolting waters. Through the crevices of the rocks, found all over the surface of the canyon, the ateam shoots and

### Rallooni

California has 23 lines of railroad, amounting to 4,265 miles, nearly all centering in San Francisco. The most impuritant are the Central and Southern Pacific, and the leased lines, reaching through the principal valleys of the State. The S. F. & N. P. C. R. R. Iraverses the entire length of Sonoma valley. The Oregon Division of the Central Pscific is now being built north to the State line, where it connects with the Cslifornia and Oregon Railroad, making a through line between San Francisco and Portlaml, Oregon. Other railroads are being hullt in various parts of the State, which are noticed in the different county descriptions, to gether with the ocean and river steamer lines. The physical characteristics of the State, giving the limber, soil, minerals, etc., are classified under the different county descriptions.

### ALAMEDA COUNTY.

This county, separated from San Francisco by the bay, which forms the western boundsry line of it for a distance of 36 miles, is bounded on the south by Santa Clara, cast by San Joaqnin, and on the north by Contra Costa county, of which it was a part until March, 1853, when, by an act of legislais well watered by numerous creeks which rise in the upper portion of county and emptrinto the bay. The principal ones are Alameda, San Lucauco, San Lucandro, San Antonio, Sanuol and Temescal. Artesism well water is obtained near the bay; it flows out, while further back, towards the fact-hills, it rises near the surface.

Land has rapidly advanced in price, within the past few yesrs, which is largely due to the fine, genial climate, excellent soil, and close proximity to the largest cities in the State, viz., San Francisco and

### Onklinio),

The second largest city in California, which has a white population of 35,000, and, as a place of residence, is acknowledged to be surpassed by an other city in the Union. Her location is on the cast sale of the bay, immediately opposite San Francisco, with which place she is canceted by several rallroad and ferry lines. Steam-ears run to hearly every part of the city, besides the cight different lines of street railways leading to Alameda, East Oakhad, Berkeley, and Frantivate. The harbor and ruilroad improvements, and the building of the srawall and dredging out of the bay by the Government, will make this a great commercial center. By mesns of

completed, will manufacture from nails of various kinds, plate iron, etc; the Oakland Iron Works, the agricultural works of Seymor & Sabins, the Csilforma Husiery Mill, large flouring mills, tanneries, potteries, etc.

The towns of Livermore and Pleasanton are situated in Livermore valley, in a fine sgrionitural country; while Haywards, San Leanfor, Centerville, Alvarado, Newark, and Niles are all situated on the bay side of the mountains. The towns of Alameda, Rerkeley, and East Oakland are virtually a part of Oskland. In all the towns of this county are churches of all denominations.

### ALPINE COUNTY.

Alphahetically spenking, this is our second county. Alpine is located in the extreme eastern port of California, berdering on the State of Nevada. It was organized under an Act of Legislature of 1863-4 from portions of the counties of El Dorado, Amador, Calaveras, and Mono. The greater portinn of the county lies at a very high ultimle, resching from 1,000 in 11,000 feet above the sea-level. It is some 70 mites long, and 40 unters wide, and has an area of 565,000 acres. It is the most spursely-populated county in California. The comms of 1880



VIEW OF BERKELEY, CALIFORNIA.

bissee, while the sulphur and alum crystats gleam in the sunlight. The questionable ground shakes and is hot beneath your feet; the air is thick with vapor which bursts out in a reasing cloud of stessn.

California is not without her natural bridges, five of which have been discovered; the largest of these la on a small creek emptying into the Hay fork of Trinity river, and is 30 feet long, with its top 170 feet above the water. In Sisklyon county there are two, each 90 feet long, and on Cayoto ererk, in Tuolumne county, there are also two, the largest being 285 feet long. Numerous caves are found in nearly every mountain county of the State; perhaps the most noted is Alsbaster cave in Placer county, containing two chambers, the largest being 200x100 feet. The Bower cave, in Mariposa county, has a chamber 100 feet square. Oryte caves, in Calaveras county, are among the most beautiful sights in the State. Remarkable mud volcanoes exist in hi the State. layo county, whose surfaces are below the level of the sea, covering an area of a quarter of a suite long by one-alghtic of a mile in width; they conalst of soft mud, through which hot water and steam are constantly escaping, keeping the mind in Innumerable contlinuous movement. Innumerable mineral apriliga are found all over California, which are deribed in the county descriptions.

tion, the county of Alameda was organized. It contains 512,000 acres, 487,293 of which are assessed, leaving only 24,807 acres of waste land, some of which is partially covered by water from the bay, the remainder being mountain waste. The county is 32 miles long, and from six to twenty miles wide. It has nearly every variety of land, from low level mile lands to rolling mountain grazing lands. The topography of the county is a succession of low rolling lillis and valleys; and in general aspect, the county faces to the southwest. Along the bay, on its west aide, is a strip of land from six to fifteen miles wide that is from a few to several hundred feet above the sea level, all of the very choicest agricutural land. Along the water's edge there are from 20,000 to 25,000 acres of tide land, a great portion of which has been reclaimed. In the castern portion of the county is Livermore valley, which is an olevated plain, from 350 to 500 feet allove see 1-vel; this valley is from twelve to fifteen miles to length sml from four to eight miles in width, and is surrounded by a low range of mountains. Alamein has smillednt timber for fuel. The live eak ts found in nearly all the valley portion of the county, with some scattered ayoamore, madrone and willows, and, is the vicinity of Livermore valley, there is considerable white eak. Alameda

railroads, hay, river, and sea-going vessels, she will be in a position to receive from and distribute to all parts of the State and the whole of the Pacific Coast, Mocio, Australia, and the world at large. She also offers unlimited choices of location for mannfacturing outerprises, and has ample sites, combining railroad facilities, with wharfage for sea-going vessels. The frontage, within the city limits, consists of over ten miles of railroad tracks, of which eight unles are available tor maunfacturing. Oakhand enjoys a climate most favorable for human exertion, being nother too hot in summer nor too cold in winter; snow seldum falls. The mean temperature in January is 19 degs., and in July, 65 degs. The city's mortality, for its size, is the lowest in the world. The cent of living and rents are as low as those of nine-tenths of the cities in the United States. The educational facilities are fully up to the highest standard. Hore, are located the State University, Californts Medical College, Military Academy, theological and other seminaries, grammar schools, etc. Several large manufacturing lomeany, with a capital stood of \$1,000,000, who manufacture various kimbs of agricultural implements; the Pacific Iron and Nail company, which, when

gave it a white population of but 539. As the county lies cast of the summit of the Sicras, it is almost as much isolated from Sar Erancises as though it belonged to another country. Alpine is strictly a mining county. There are some very rich quartz unines within her horders, some of the most noted of which are the IXL, Exchequer, Isabella, and many others. Some are being worked, but many are owned by parties who have not the means to develop them, as it requires large capital. This county is exceedingly well watered, as the Carson river rises in the southern part of it, and flows north. It is fed by unmerons menutain streams, such as the East fork, West forh, Wood creek, Silver creek, Monnter creek, Sundan creek, etc., which all head up in the Sierrus, amid perpetual snow. Among these mountains are numerous valleys; the largest and most noted are Dimond, Hermit, Pessaut, Faith, tippe, and Charity valleys. Dimond valley contains the principal firming lands, producing barley, flay, mus, potatoes, and some when, which that a ready murbot among the numers in the vivinity. The three sister valleys, Faith, Hope, and Charity, are located in the northwestern part of the county, at an altitude of 7,000 feet. These valleys are lubabled only during the summer montus, and then only

by stockraisors and duirymen. In Pleasant valley argo quantities of any are out annually. There tre many smaller valleys in the county, where theep and cattle are grazed during the summer leason. The large amund of slock which grazes pere is driven from other adjacent countries of Oalornia and Nevada.

# Markleeville,

The county soat, is located on the east lianhs of the west fork of Carson rivor, at the base of a mountin where the snow-capped peaks of the Sierras can nearly always he seen. The town contains less than 250 inhabitants.

The second village in Alpine, as located some eight miles southest of Marhleeville, and is situated in a narrow canyon, with fine quartz mines on all sides. The large No. 2 Colorado Quartz Mills are located The town contains 200 people, who are prinsipally miners.

### Silver Mountain

Is a small town located on the banks of Silver reek, at the foot of Silver mountain is about eleven miles southeast of Marklee-ville; it has a fine location and a splendid summer climate, but, at times, in the winter, the town is almost snow bound. Alpine has many mineral springs, both hot and cold. The most noted are situated in Pleasant valley, a short distance west of Markleeville. The medicinal qualthes of these springs are bourficial for rheumatism. They are becoming extentively known, as many an invalid has been estered to health and vigor by bathing in and drinking of their waters. This county has also vast forests of pine, fir, spruce,

Beautiful little lakelets are scattered all over the county, abounding in mountain trout and other fish. Very little fruit is raised here as yet. Small fruits and berries grow in profusion in summer, and the hardier varieties of apples do nell and have an excellent flavor. The climate, in sum-mer, is mild and bralthful, and in winter much snow falls, especially nu the mountains. The average temperature in summer is about 75 degs., and in winter about 40 degs. The people boast of magnificent mountain ecenery and a healthful snumer climate.

# AMADOR COUNTY.

In the southern part of the north half of Caliornia and on the western slope of the Sierras, extending to the edge of Sacramento valley, and peculiarly wedged in between El Dorado, Alpine, Calaveras, San Jusquin and Sacramento, we find Amador county, containing an area of 300, 000 acres of land. The western portion is broken into hills and rolling swells, with an occasional velley or stretch of plain between. The principal valley is the Ioue, situated in the south-west portion. Its fertile; it is divided up into heautiful little ferms, orchards and meadows; much of the surrounding hillsides are planted to vine-yard. This hilly or upland soilis of a redish nature, and is excellent grape laud. As we go east to the neighboring hills and mountains, the land is yet in its virgin state, and is covered with chapparal, blue pine, etc. Once chared, the level portions make very fair farming land, but is better adapted for grazing. In the smaller valleys, where water is brought in for irrigation, considerable alfalfa is raised. principal water-courses are: the Mokelnone river, which drains the southern portion of the county, and the Communes river which, with its hranches, drain the northern portion. The smaller streams are: Bear river, Tiger, Deer, Panther, Dry, Jackson, and Indian creeks. There are many other small streams, which give ample tacili-

tus for irrigation. Unlike many mining regions, Amador has an extraordinary soil. quantities are cleared and improved annually; productions of which are, whicat, barley, alfalfa potatoes, wine and fruit. The foot-hills, and es potatoes, wine and fruit. The foot-hills, and expecially the valleys of the lower portion of the county, are very favorable localities for fine fruits

The mineral resources of the county are coal, copper, gold. Quite extensive developments have been made, in the coal mines, by the C. P. R. R. Co., who have every facility for shipping, as a branch of their road leads to lone Olty from Galt, on the msln line. This cost is used on their trains and ferrice between San Francisco and Oakland. Three strata of coal are found; the lower nne, a velu five to seven feet thick, is considered a ver-fair quality of coal, and is also used for dumestipurposes. Other mines are heling developed by private parties, who have tapped good veins by tunneling several hundred feet. About four miles nelling several hundred first. About four miles from Ione City, near the road loading to Jackson, are the colorated Nineton copper miles, which are being estimated worked. The copper is ox-

tracted form the are by the leeching process. Leaving the copper mines, and passing still further eastward, we soon hear the stamps of Immense quartz-mills grinding up the are. Large pile pulverized rock attest the fact that some of Large piles of nimes must have been sunk to a great depth. The Consolidated Amador is down 2,200 feet, the Mshoney, 800, and is still going deeper. The Keystone, and other mines in the violnity, are all in active operation. The first town that is reached is

# lune City,

Which is 133 miles northeast from San Francisco, at the terminus of the Amador branch of the C. P. It occupios a site on the edge of a luvely valley, which bears the same 1 ame, and is a thriving town, of about 650 people. About twelve miles northeast, by stage, is

### Jackson.

The county seat, which lies in a beautiful little valley, surrounded on all sides by high hills; it contains about 1,200 inhabitants. Four miles from Jachson, by slage, we arrive at

The other towns are Volcano, Oleta and Drytown, each with a population of from 200 to 300. The census of 1880 gave Amador county a population of

# BUTTE COUNTY,

This county lies along the castern side of the Sacrumenth valley, and is bounded on the north by Teliama county, east by Phimas, south by Yaba, and west by the Sacramonto river. Butte is one of the largest countries in California, embracing an area of 1,305,410 acrps, which are classified as follows: mineral, 552,960; timber lands, 568,640; agricultural, 195,840. 'The western part of Butte is comparatively level, and embraces most of the farming lands, while the castern side is hilly and mountalnons, and includes all the nines. county is well watered by the Sacramento and Feather rivers; the latter, with its north and middle forks and numerous smaller branches, waters the south eastern purtion of the county. Chico, Butte, and Dry creeks are large streams. The soil, along the river bottoms, is a rich, samly loam. Between the

many other mines in the county; the julnefpal localities are Wyamlotte, Bangor, Forbestown, Cherokee, Mountain House, Duglown, Lonelochs, and

### Ctiteo.

The largest town, is situated in the western portion of the county, on the line of the Oregon division of the C. P. R. R., 235 unites north from San Franoisco, in a rteli agricultural country, that will rival. In lertifly, any scotlin of the State. The town, besides being supplied with water and gas, and well laid off, is beautifully studed, by thousands of ornamental trees, and is one of the handsomest cithes the Slate; It now has about 3,800 mhabitants, Adjulating the town is (Irneral John Bidwell's farm, acknowledged to be the handsomest and best tilled farm in all Cultfornia; the General took the geld medal, at the Paris Exposition, for the finest wheat in the world, and last year he hald out \$60,000 for hired help in the planting, tilling, and harvesting of his endless variely of cereals, fruits, and vegeta bles. The finest orchards in the State are here, and there are all classes of soil on this farm, from

the red mountain foot-full le the viry cholcest garden land.

# Oravitte,

The second town of importance, is the county sent. It is 21 mlies south west of Chico, at the terminus of the California Northern rellione, which runs from here to Maryaville, where It intersects with the C. P. It. R. (O. D.) The country south and west of Oroville is a fine farroing region, while in the foolbills, near the town, there is considerable maning, lation is about 1,800. Oroville is not a handsomo town, as t lirs in a depression on the south bank of Feather river; but it commands an extrasire mountain trade, reaching luto northeastern California, for more than one hundred miles. Some heavy merchants have done business here many years, and have become quite wealthy. A fine new flouring mill has recently been built, and several slage lines center in from Plamas and Lassen counties, on the north, and Yuba, on the south. hesides the lines from Chico and Biggs.

Thouther towns are Oridley, Biggs, Nelson, Durham, and Nord, all lecated on the O. D. of the C. P. R. R., in the western part of the county, and surrounded by fine agricultural lend. Butte has immense forests of sugar, yellow, and nut pine timber. This timber belt is in the esstern mountainous part of the county. Among the objects of interest to the tunrists are the falls of Fall river, a hright, clear stream, rising in the mountains near La Porte, Plumas county, and emptying into the middle fork of Feather river, some to miles above Ridwell's Bar. The river falls. in an unbroken sheet, over a precipice of 460 feet. The climate of Butte is pleasant, except during a hot sprll in midsummer, lasting from three to six wreks, rainy season sets in about the first of December, and lasts until the first of April. The rainfall for Oroville will average from 20 to 24 inches. Snow seldon falls below an altitude of 1,200 feet. On the more mountainous parts of the county it falls to a depth of over two feet,

# CALAVERAS COUNTY.

One of the oldest settled counties in the State, and justly celebrated in the early days of its settlement for the fabulous rield of virgin gold from its rivers, gulches, and drep climinel diggings, is located on the western slope of the Sierras, in the contral part of the State, lying immediately east of San Josquin, south of Amader, west of Alpine, and northwest of Thol umno county. It is about 60 miles in length, with an average width of 30 miles, and has an area of 622,000 neres. The entire county may justly be regarded as

a hed of inthernal deposits, gold predominating; the linser metals, such as copper, iron, and cinniber are abundant, besides the magnificent leilges of murble, limestone, and grante, and her and evoluted beds of coal, which are known to exist The principal matural wonders of the county are the world-renowned Big Trees, obserhere described, the extensive cave, with its truly charming chambers, and the monderful untural bridge, all of which are annually visited by tourists from all parts of the world. The immense thuber belt, for grandenr, extent, divarsity, and magnificent proportions, has no parallel in the entire timber belt on the west ern slupe of the Sierras. Onlarcias is one of the lest watered sections of the State, her custom border being defined by the Stanislaus river, the western by the Mokelmans, and the central parlian, longi-tralianly, is drained by the Columerus eleer and its tributaries. Those streams and their branches are topod at various points, and their waters distributed by artitlebel means, obidly for mining purpiners, to all scottime of the county. The principal once in the county are the Ackelmano Hell and Slee Canal, on the west side, which inke their supply from the Mokelmane river; and the Marphy's



# KLAMATH RIVER VALLEY SCENE.

# Suttor Creek,

Still the scene of netive rulning operations, principally gold quartz. This town has a floating population of from 1,000 to 1,500, as the mines are worked. A half-hour's stage ride, amhi some of the largest urlies in the county, brings as to

Amador City.
The liveliest mountain town in this section, which s fairly nutstripping all the other lowns in growth. It is but a few years since a town was started here, and now it has over 1,000 inhabitants. It is strictly a mining town, Seven miles from Amador City, situated on an open pluin, or table-land, lies the town of

Plymouth,
Whileh contains about 600 inhabitants. is heard the heavy slamp of quartz wills, grinding away, day and night, the whole year round.

The Amader Canal Company, a corporation which has extensive water works, farnishes water in Jackson, lone city, Amador City, and Plymouth. The water is taken from the Mokelumne river, by ditches and pipus, to large reservoirs, from whence It is distributed in pipes to the different towns and

Secremento and Fenther Avers lies an immense tract of black adulte land, very productive in ordinary years, but liable to oreithm during the wet season. Near the foot-hills there is a belt of rol lamls, formerly thought not worth farming; but, during the past few years, namy small farms have been successfully tilled, as the land constantly tm-proves by cultivation. The foothtlis contain land valuable for farming purposes, though, at present very little of it is under oultivation. Feather river has three forms, or branches, crossing the mining section, dividing the hilly portion lute several extenstve regions. Along these various streams, and on the several ridges are the principal mines. The immense hydraulic values of Cherakee Plut are, perhups, the most gigantic in the State. Hills several hundred feet high have been washed away to the hed-rink. These are causidered as among the best-paylog actions in the State. There are about 80 miles of large ditches and ever six miles of from pipe leading to the mines, supplying about 2,200 inches of water er sloy. The cost of the ditches and reservoirs is early hulf a million of delbars. From twelve to olghtmen Hydraullo Ginuts aro ut work, and a large uumher of men are constautly employed. Thure are Canal, on the east side of the county, which takes Its supply from the Stanislans. These two extensive works have many interal ditches for the distrib-The Calaverse river is also ution of their waters. tapped at various points, as are the many tributaries of the several main streams, principally for mining purposes, as there are innumerable operations in quartz, hydraulic, and channel mining throughout the county. There are many ledges of quartz, some of which carry guld in good paying quantities, noticeable among which we might mention the Givinn mine, located in the west central side of the county, and which is being proaccated with an energy and upon a scale second to no similar mine Stato The American Chavannie, on the east central side, the Champion and Boston, in the north and cast parts of the county, are all good paying tuines.

Sun Andreas

The county seat, is an old mining town, and now has a population of 800. It is 143 miles nearly due east from San Fraucisco, and is reached by railroad to Milton, just in the edge of Calaveras county; from thence by stage 22 railes. West Point is extreme town on the north-west; Mokelimne Hill on the west center; Campo Seco and Comanche on the south west; Jenny Lind and Milton on the

28,000 acres, the low hills at 480,000 acres, and the remainder, about 4,000 acres, is mountain waste. The best land is along the streams, and especially along the Sacramento river, which runs almost due south, forming the western houndary of the county for eighteen miles, then runs through the county-21 miles-in a straight line, and again forms the eastern boundary. The soil along the river is of a sedimentary, decomposed vegetable nature, making the most productive hand in the world. best lands, the soil of which is the black adubausually lie between the river-bank lands and the foothills; they are considered the best of grain land, but are somewhat difficult to farm, as they do not want to be ploughed either too wet or too dry The third-rate lands are valley lands that are spotted and impregnated with alkali. The fourth rate are the mountain pasture lands in the western portion of the county,

The Sacramento river is skirted on either side with a growth of timber averaging a mile in width, trhich is principally oak, sycantore, cottouwood, and ash. Along the Coast Range there is considerable fine pine saw timber. Colusa county is watered by the Sacramento river. The river is navigable, all the year round, to the apper end of the county. Stony creek rises in the Coast Mountains, about 40 of fertile land between the river and the slongh, and Yolo, Sutter, and Colusa counties, is known as Cranil Island.

The ceusus of 1880 gave Colusa a population of 13,118; add to this an increase of about 800 for the past two years.

Colusa is not classed as a mining county, yet there is both gold and quickeriver found within her borders. Colusa la not without her mineral springs, Among them we will name Allon's soda springs, the water of which is very pleasant to the taste, being alrougly impregnated with carbonic acid. Cook and Fout's springs, are located in Bear valley near the noted Bartlett spring, just across in Lake

Cotusii.

The county acat, is located on the extreme castern side of the conuty on the banks of the Sacramento river. This is the largest town in the county, and has a population of 3,000; it is regularly laid off with wide streets, and has some very good and substantial brick business blocks. The Sacramento Transportation Company's steatuers, which jdy betiveen here and Sacramento, also run up the river, aoms 90 miles, to McIntire's Landing. Ten miles west, mi the C. P. R. R. (C. D.), we cause to the

College City, Lucated in the southern part of Colusa, some eighteen miles aouth from the county seat, contains about 250 inhabitants, and is in a fine agricultural country. Some three intlea east is

Arbuckle, located on the railroad, with a population of allout

Jacinta

Is the shipping point for the large wheat farm of Dr. H. J. Glenn, and has one general store, Sulphur creek is a small mining toun in the

Coast Rauge of mountains. Central is a city of the future. Spring valley, St. Johns, Newville, Butte City, Kanawan, and Leeseville are all amall trading points in various portions of the county.

# CONTRA COSTA COUNTY,

Is bounded on the north by Solano and Sacramento counties, the San Josiquin river, Suisun bay and the Straits of Carquinez forming the line; on the south by Alameda county and San Francisco bay; on the east by San Joaquin county. It will thus be seen that the geographical position is a most desirable one, being about millway of the coast line of the State, fronting the Golden Gate, and with a water troptage of seventy miles on the western and north



CALIFORNIA POWDER WORKS, SANTA CRUZ COUNTY, CALIFORNIA.

south; Copperopolis on the southeast; Altonville and Angels Camp on the east center, Vallecito, Murphy's, and Sheep Ranch on the north-east of the county. From Milton, the terminus of the rallroad, where all supplies for the central and castern portions of the county are received and distributed, stage lines diverge to Ban Andreas, Sheep Banch, Copperopolis, Angel's, Muridiy's, the Big Tree groves, and Sonora. A daily stage line also runs from Ledi, on the C. P. R. R., to the Gwin mine and Mokelumne Hill, intersecting with the Jackson and Amader line vin. Galt, or Ione city. The undeveloped resources of this county are almost inexhaustible.

# COLUBA COUNTY.

Comprises a large portion of the great Sacramente valley, and is bounded on the north by Tebama, on the east by Butte and Sutter countles, on the south by Yoto, and on the west by Lake and Mendocho consites. It has an area of 1,472,000 acres, and is 60 miles from north to south, and averages about 45 miles from east to west. Of this year territory, about 960,000 acres lie along the Sacramento valley. on the summit of the Coast lininge forms the western boundary, me balance of the county is com-

miles south of the north line of the county, runs almost north to the upper end of the county, where it inverges to the east, enters the valley, and rillis significant to the Sacramento river. stream drains the entire eastern slope of the Coast Range for about 50 miles, consequently it carries off an immense amount of mater during the rainy season. About 20 miles north from the south boundary of the county there is a kind of divide separating the waters of Caone creek, running aouth, from those of Stony creek running north. There creeks onier the Sacramento valley about 75 milea apart, and no streams enter it between them. The country between these reaters and the plains is covered with low hills, in which small creeks have their rise, and run east to the plutus, where they sink in the samt. Eighteen miles north of the south boundary of the rounty is Butte slongh, which is a large estuary, nearly one lifth the size of the Sacramento river, and runs in a southeasterly direction into Sutter county, where it is last in the tale basir formed by the Sacramento and Feather three most spranners slough leaves the river on the west side some four miles below Butte slough; the great slough flowing lute the river from the tule to Kulght's Landing, in Yolo county, and about Posed of mountains, low hills, and small valleys.

The valley portion of this balance is eatimated at mame of the Lower Sycamore, and the large body the railroad entered the county.

# William

Named after Mr. W. H. Williams, the founder of the town. There are, at present, about 400 inhabitants. The town is supported by the wheat-farming country that surrounds it on all sides.

Maxwell, Situated on a level plain, has a population of about 250. The immense grain marcheness located here are positive proofs that this is one of the fluest wheatproducing sections in the State,

Withwa,
The accord largest town in Column county, is losuted on a level plain in a fluc agricultural country. The business portion of the town was nearly all destroved by fire early in the season, but it is now re Midray between Maxivell and Willows is

the village of

Germantown,

Simatol to a the wheat section. It contains about
200 inhubitunts, several large grain translances,
two hotels, and a few general stores. We now pass

tro botels, and a rear general on north to the village of Orland, simated on both sides of the railrand, in a due agricultural county. Orland has a population of 450, Princeton

fasituated in the northwestern part of the county, on

ern border. The county was organized as early as 1850, which embraced Alameda's territory. Contra Costa county now has an area of 444,491 acrea. The Coast Rauge of mountains run parallel with the ocean seross the county, extending to a southeasterly direction. The most distinguished feature of this range is Mount Diable, standing out boldly 3,896 feet above the sea-level, its location being very near the center of the county. Its prominence caused it to be selected by the Government as the initial point of base and meridian lines in the survey for nearly two thirds of the State's area The immense coal fields of the Mount Dualile footfulls are an important source of realth to the county. These innes were discovered in 1859. The Black Diamoul vein, for twenty years, has yielded of its treasure to the never-tiring pick of the miner. Several railroads have been constructed from deep-water navigation, at the tiend of Sulson bay, up into the mines. The Pittsburg and Union influes, at Somerscalle, one mile east of Nortonville, also ship their cool products over a road six utiles in length, to indo water. Two miles castward is lo-cated the Central mine. Next comes the Empire. which was appeared in 1876. This mann has y 120,000 tons of earl within the last four years. Phis muo has yielded coal taken from the Mount Diable district automated over 97,000 tons for the last year. The Binck

Diamond furnishes employment to 250 men, and yields 72,000 tons sunnally.
With the exception of enal mining, Contra Costs

is mainly an agricultural county; her exports are wheat, lurley, oats, butter, live stock, buy and coalwheat, tarrey, oas, butter. The topography of the county is low hills and small valleys. The central valley is about fifteen miles in length, and from one to six miles in whith, The various names of Pacheco, Ygnacio, Diablo and Walnut creek are upidled to this fertile section rhich yields an abundance of cereals and fruits, Crops rarely fail,

San Ramon is the second vulley of aomo ten mifes in length, and from one to two miles in midth, extending from Walnut creek to the Alameila county line. It contains some of the pleasantest homes in In its western portion are a number of small, fertile valleys, such as San Publo, Pinole Briones, Rodeo, Tajiar and Allmmbra, all settled with thrifty farmers. The farming lands in the eastern section of the county extend from Bay point, a spur east of Mount Diablo, and brtucen the fool-hills and the San Joaquin river to the county line, being 23 miles in length by from three tn six in width, and embrace about 60,000 acres of arable land. The soil is, generally speaking, of a rich, alluvial nature, and produces wheat and har-To the northward, and between the uplauds and the San Josephin river, is a body of tule lands, embracing, in all, some

50,000 acres. Large sums have been and are now being expended in reclaiming these lands, which become marvellously picductive, the soil being a rich deposit of sediment and decomposed vegetaare leased to Chinamett and Italian gardeners, who pay an annual cash rental of from \$10 tn \$20 per acre. The San Francisco vege-table market is largely supplied from these lands,

As in most counties in our State, so here one may find a diversity in climate. Generally speaking, it may be regarded as a medium between the chilly fogs of San Francisco and the enervating heat of the mner valleys. The afternoon westerly trade winds, blowing fresh from the ocean, modulated by the warmer inland air-cur-rents, rendering this clidelightful, neither too hot nor too cold. In summer the mercury ranges from 75 to 85 degs. and, in some cases, 90 degs., and in winter from 45 to 70 degs. The seasons are divided into the wet and dry. From May to November 18 summer, but the gentle ocean breeze 18 always invigorating. The hot, sullry nights of the Atlantic States are un-known in Catifornia.

Martinez, Situated on the Streits of Carquinez, is the county seat, and contains a population of about 700 people.
The overland railroad now es through the town, and the commerce of the

ramento and San Josquin rivers also passes in full view. There are a few wealthy citizens in the place, who live on the interest of their capital, and own the greater portion of the town,

# Port Costa,

A new and enterprising town, which has sprung up since the building of the two railroads, me via. Martinez, Antioch and Lathrop, where the Southern Pacific Railroad intersects with the road nia, Stockton, Benters, Suisun and Dixon to Sacramenlo, and the other crosses the straits car. Benich, Suisan and Sacramento. Port Costa has advantages that and sacramento. Fort Costa has advantages that few places in California possess, one of which is deep water, enabling the largest sea-going vessels to come and load with wheat, as well as the largest grain warehouses on the Coast. The town has over 3,000 feet of wharfage for shipping facilities. The monster ferryboat "Sciano," 425 feet in longth, with four tracks, is camable of conveying four trains of cars safely across the straits between Port Costa and Benicia, a distance of one mile,

# Crackett.

Located inidway between Vallejo Junction and Port Costa, right on the banks of the straits, and on the line of the Southern Pacific Rallroad, 11m are located J. L. Heald's Agricultural Works, large thre-proof brick atructure, 104 feet while by 804 feet to length. It is one of the most complete and

conveniently located manufacturing establishments in the country.

# Vatlejo Junction.

At this point passengers are transferred for Vallejo, Napa, St. Helena, Culistoga and all places northto Mendecino, Lake and Humbeldt counties, and the great northwest. About midway betircen this place and Borkeley we come to the village of

# Saa Paide,

Which is only about seventeen miles from San Francisco. The ald town is about one mile from the railroad statiou,

# Autlach,

On the San Joaquin river, and also on the Central Pacific Ruilroud, distant 55 miles from San Fran-risco. The town has a population of 900, and is pleasantly situalized on the bank of the San Joaquin river. It is regularly laid out and has some very creditable buildings. Anticoli is certainly one of the hest locations for mannfacturing operations in the State, as it has on the river and railroad and in close proximity to the Mount Diabln coal fields, with a nurror-guage railroad to the Empire and Central mines, a distance of some seven miles. Good steam coal can be had here cheaper than any other place in the State. The country around Autioch is all good agricultural land, some fine orchards being in the vicinity,

bar. Besides this river and Smith river, which, with its north, middle, and south forks, heads in Del Norte, and flows northwesterly into the accum alount six miles south of the northwestern corner of the State. There is a large number of anuller streams which afford excellent water power in different parts of the county. The principal barbor is at Crescent city, which is located on a small hay, in latitude 41 deg. 14 mln., longlunde 120 deg. 10 mln., which is 280 miles north of Sun Prancisco by water, and about the same distance south of the Columbia giver. The harhor is an open roudslead, with no bar to cross, and affords shelter for vessels during the summer months, when the mind generally blows from the northwest, but it is open and unprotected against the southerly gales which prevail during the winter months on this chast. Vessels find good anchorage in five to seven fathems of Two lines of steamers ply hetween here and San Francisco. There is an immense amount of Government lands, both agricultural and mineral, in Del Narte county. No finer redwood timber can be found on the coast than is here within a few miles of this harbor, and, within easy reach of Dol Norte county, as before stated, has an ares of 860,000 acres, the greater portion of which is mountainous, and 75,000 acres of it are as yot unsurveyed; 27,980 acres of timber land is sur-

Legislature for a distance of 60 miles, to Orleans of country on the routh side of the county, Iwenty miles in length and two miles while, which lies on olthor side of the Klamath river, from its mouth inland. Here are thousands of acres of the finest redwood timber in the Sinta, also immense mlaers resources, remiered useless and idle. We are told. by good authority, that there are less than 100 Indians now on the reservation. When this once open to white settlers, it will become the most valuable territory in Del Norte. The rounty is but sparsely settled, there being only 2,690 people within her borders.

trescent City,
The county seat, with a population of 1,000, is siluated on a small bay, looking south-west, and facing the sea, at the fact of the Coast Range of mount. Nearly all of the exports and imports of the county are from Crescent city; in fact, there is an extensive country tribulary to this point, reaching north into Josephine and Jackson counties, Oregon. The climate of that portion of the county near sea-coast, remprising Crescent city, Elk, and Suith river valleys, is, in its general character, mild and healthy. Severe frosts are seldom experionced. The heat in summer is not oppressive, and, although little or no rain falls in the summer months, the close proximity to the ocean lends moisture enough to the atmosphere to sustain the vigorous growth of plants. The immense fern and

weeds in the redwood forest indicate no lack of moisture. The rainfall at Crescent city is from 60 to 70 inches for the season.

# Del Norte,

Sometimes called "Smith River Corners," is about sixteen miles north-ea from Crescent cily, and contains 200 inhabitsuts. There are only three vilages in the county, the third being a mining camp, on the extreme exat side of the county, called

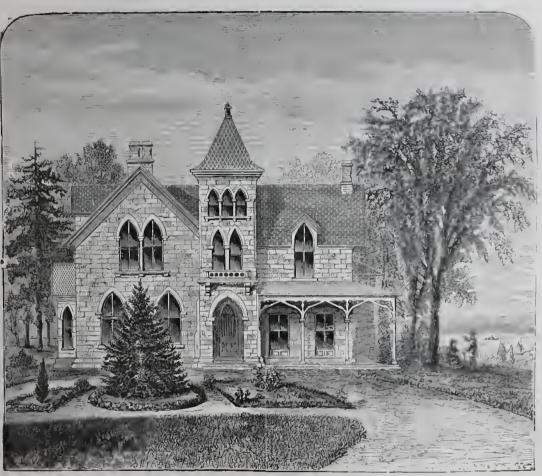
Huppy Camp. The town is built on both sides of Indian creek, ear its junction with the Kianiath river, and snr-rounded by mountains, the ouly means of reaching the place being by mnnntain trails. The country and its chief support is in mining. What Del Norte most needs is barbor improvements in Crescent city. That will bring in people with capilal, who will improve her many water powers, saw up her immense forests of redwood into lumber, and ualock the great vaults in which her vast minerals are now sleeping. The present sparsely settled country will then teem with industries which at present are scarcely thought of; when her gold, iron, chrome, fish, lum-ber, and hatter will be sent by her own ships mall parts of the world.

# EL DORADO COUNTY

Where gold was first discovered, on the 19th of January, 1848, hes about 110 rulles - that is, it

western boundary- east by north-east from San Francisco, and reaches to the State of Nevada, while the west horders on Sacramento county. It is bounded on the north by Placer, south by Amador, white Alpine corners its south-eastern ary. Numrly every offmate, to be tound in any State in the Union, may be found within borders, as the ultitude ranges from 800 feet to ulmost perpetual snow. The western footbill helt, conquising an area of some 30 by 43 onless square. contains nearly all of the agricultural and mining ground. The county has an area of 2,210,000 acres, and may be considered as a mining county, al-though considerable farming, durying, and fruitraising is ourried on in the western portion, while the eastern portion is heavily timbered with pine, fir, usk, and other monetatic thirber.

The goneral trend of the Sierras, through Nevada Placer, El Dormio, Amader, and Calaveras is north and south. Anriferous gravels lie along the westorn part of the county, in the foothills. A formation is found in the county which is usually known as the "idne lead," because of its peculiar enter and it is thought to but don't river whose channels and guidoos leading therefrom have been the re-pusitories of increase quantities of course gold. Palanions sums of gold buye been taken from this formation. Throughout the principal pertion of this mineral bult runs a strong mineralogical form-



# STONE FARM-HOUSE ON UPPER SACRAMENTO RIVER.

# Walnul Creek,

One of the prettiest towns in the county-we may say to the Sinte-has a population of 500. The nther towns in the county are Judsonville, Somersville, Danville, Adams, Lafayette, Pacheco, Concord, Clayton, Black Diamond, Nortonville, Pittslong Landing, and various smaller places.

# DEL NORTE COUNTY,

Siluated in the northwest corner of California, is bounded on the east by Sisklyon, south by Humbolds, north by Curry and Josephine counties, Oregon, and on the west by the Pactife areas. It has an occar frontage of 32 miles, and extends east 42 miles, being nearly square, with an area of 860,000 miles. Its tokegraphy is a succession of minutaln ranges, in the western and southern pertions, which are well limbered with redwood, hem lock, spruce, coder and pine, while in the eastern part the surface is broken and mountainens. The Sishlyon mountains, in the cast and conter, attain an altitude of 6,000 feet -- many peaks from 4,000 to 5,000 feet. Along the coast they are from 700 to 1,000 feet, and are cuvered with very beavy realword and sprace mader. The face of the country, in the western portion of the country, slopes toward the sea. The Klimath river enters addway on the eastern line, and flows south-westerly into Rumtoolit for 50 miles; it is the second largest river in the State. It was declared navigable by the State

veyed, hesides the mineral chilms in different pertions. The farming land now surveyed is about 15,000 acres. A great portion of the unsurveyed lands is excellent timber. Gold mining has been steadily and successfully pursued since 1851, Tho most important gold nil ee in the county are at Huppy Camp, and are mostly hydrantic diggings. The production of gold is broad \$200,000 to \$300,000 annually. Copper ore was first discovered in Del Norte in 1860, in the northwestern part of the county, in what is known as the Law Divide District. Five good mines, the tinuscam, Occidental, Alta, Union, and Munitooth are all located on good paying leads. In the Big Flat District is the Cresont copper mine. The chrome mines of Del Norte are situated in the Law Diride District, in the viemity of the copper mines. The first shipment was made by the Tyson Smelting Company, of Bultimors, Md., in 1863, which line noutral of the chrome business in the United States, Tinga are extensive deposits of chranga in this county.

Immense deposits of fron ore, of various grades found in different parts of the county, the bulk of which is in the vicinity of the couper and chrome utinos, These from ores have been tested by scientific men, who pronounce them of a very high grade. Cost was discovered several years ago, a few miles north from Croscent city,

The United States Government is hebling a strip

a ion, known as the Mother Lode. This lode is well defined, as it lies in serpentine and granite, and it can often be traced for long distances, by its out-The thickness varies from a few to 50 feet. Innumerable ledges of quartz, generally white, or bluish white, exist all over the county. A large portion of them carries gold in audicident quantities to keep a number of quartz mills in operation in various parts of the county. Among the best-de-

and at better prices than are obtained at the San Francisco markets. The dairy interest here is a large one, and is the most profitable. Those engaged in it are provided with two ranges; one in the lower foot-lills, for winter use, and the other on the eastern borders of the county for summer. The latter is at a high altitude, and is usually covered with snow until the first of May, when it disappears, and the most luxuriant feed springs forth

mtnus being Shingle springs, 140 miles northeast from San Francisco.

Georgetown, Greenwood, Coloma, and El Dorado are allold miulng towns.

The county is well watered by the American river and its numerous tributaries. The system of canals which supplies water for bathing, mining and irrigation, is unsurpassed by that of any other county in the State.

summit of the Sierras forms Harastern boundary, the summit of the Coast Range its western, and the general course of the Chowchilla river its northern, and King's river its southern boundary. The central portion of the county comprises a large part of the great San Joaquin valley, its lowest portion contains about 300,060 across of marsh and low lands, formed by the waters of King's river, and during high water being partly covered with the mingled waters of King's and San Joaquin rivers. the mingled waters of King's and San Josquin rivers. The eastern two-fifths of the county is mountainous



SCENE ON THE UPPER SACRAMENTO.

veloped mines are the Church Union, the Pincerveloped mines are the Church Union, the Pincer-ville gold quartz, Mount Pleasant, Grand Victory, Bosekrans, and a number of others. Hydraulic mining has been extensively carried on in the vicinities of Placerville, Greenwood, Georgetown, Coloma, and other portions of the county, healds the Placer, shiles and seam diggings, in other sec-tions. Iron, copper, silver, and state are known to exist, the latter being worked to some extent.

Farming is as yet in its infancy in this county, and there is a home domand for all of the products,

and keeps green all summer. The western and central portion of the county, the dividing line of snow and ratu, is especially suited to the raising of fine fruits, such as pears, peaches, apples, plums, and fine grapes, which are acknowledged to be superior in flavor to those raised in the valleys.

Pincervitte,
The county seat, one of the oldest and largest mountain towns in the State, at present has a population of about 2,500. The S. V. R. R. now runs to within eleven railes of the town, the present ter-

Fresno to the lilird county in area in the State, containing 5,000,000 acres of surface. Of this vast territory 4,400,000 acres may be classed as mointainous and pasture lands, and about 1,200,000 as sgrientiural and fruit lands, and about 1,200,000 as sgrientiural and fruit lands. This county lies between the fifth and 37th degrees of latitude, and is very nearly the central part of California, extending northeasterly and southwesterly additional, extending northeasterly and southwesterly additional lies. Fresno contains forty living glacters, and distance of 120 intess, and its average broadth is something over 65 intiles. It is bounded north by Mercod and Martpessa, east by Mono and Inyo, south by Tutare, and west by San tientic and Montery counties. The

other peaks approach very nearly that height. There is no pass over the assumit lass than 9,000 feel above

On the westerly alopes of these ranges are found so On the westerly slopes of these ranges are found some of the heaviest bodies of limber in the State, and in success localities groves of the log lives, or requiring gigants," in which some single frees are found measuring 140 feet in circumference. Of the 5,500 square miles of mountains in Fresno county af least four fifths are in the Sternas. These may be divided into three distinct divisions or zones; the feet-hills burdering the distinct divisions or zones; the feet-fills burdering the plains and a strending back from twenty to littly subus to the distinctly outlined plue ridge or timber belt. These fout-fills communes at an elevation of 200 feet and are covered with scalarced oaks, increasing grad-nally, as the mountains proper ure neured, to 2,000 and nally, as the mountains proper my nearest, to 2,000 and 2,500 feet, when they suddnily rise to no chevation of from 4,000 to 5,000 feet, and are envered with a heavy growth of pine linhar. The further bull reaches back from 30 to 40 office at an elevation of some 10,000 feet, the higher regions heing covered only by dwarfad and scattered tamarack. The high Slarras proper cover a bell of about 30 milesy are nearly devold of himsh ar finber, and are broken into deep closurs, jagged and lofty peaks, ancient glacture, hasnes and present fields of fee and super. Ast the his highest, so it is this withtotty maks, ancient glacters, hission and present fields of he and snow. As it is the highest, so it is the with est and most inferesting mountain region in the United States. The geological formation of the entire moun-iain chains is as diversified as the faunt or flora

The fool-hill regions are generally granute, cut across seams of shife and frequent narrow somms of quartz. In some sections large masses of white, flinty quartz are found, and in these localities the hills are covered with redish risy. There are no extensive placers, and the numerous small ones that have

been worked are, sy a rule, renfined to the foot-hills.

Gold-bearing quartz has been found throughout the range. Generally, when the range is broken by seams if alie, the several inhies, opened and being opened, promise well. Likewise, mines of copper have been found, and one or more of fluen worked. The higher, or timber cange, here beginning the found in t worsed. Rechigher, or thinker taking, it less broken than the footbills, though the ravines are deeper and the geological formations more varied. The soil, generally, is district and richer. Small meatows and marsh as are muorrous, and water is found in your raving. North of the San Jacobs. every raving. North of the San Junevery ravius. North of the San Jun-quin its an elevated, comparatively level, timbered platem, reaching back well toward the smenth, over which a railroad line has been surveyed, designed to become part of an eastern route. Between the San Joaquin and King's rivers the country is more broken, the evidences of holls vol-caule and glacial action more abundand, and the varieties of rocks and minerals more munerous.

The Cossi Hange-or, more properly speaking, the Mount Disido Range, there being a valley (the San Bentio) between the Mount Disido and Coast Range proper—be gins about livesty miles from the ban Joaquin tiver, and is about Iwenty miles from the plains to the summit. The first ten miles are low bills, devoid of timber, but covered with grass, libeace to the summit the hills are more abrupt, covered with scrubby oak, and, in inny places, with a dense growth of nany places, with a dense growth of kapparel. The streams are the big nd liftle Panoche: the Canfon, Poso ud Chia are the only streams flow-ig toward fibe San Joaquin, which lydes the county into two unequal arts, about one lift! being on the rat side of the river. All the streams o the west side of the Ban Joaquin uk soon after rearbing the plains.

Tresue county has 2,802,800 acres, a file over our-third of its total area, lying in what is sown as the great San Juaquin valley. This valley, clusting from the Sacramento river south to Fort jon, has a huggin of about 250 miles and an average with of about 50. Kern lake, af the extreme smalln portion of the valley, has an elevation of 282 feet oversea-level, and 260 unless from the mouth of the Josaphu. Its widers connect, by a series of shoughs d small lakes, with the waters of Bucua Visis and d small lakes, with the waters of Buena Vish and three lakes, which intro has a popular water lakes, which intro has an elevation of you feet of an area of 700 square inties. Totore lake connects to the Sao Jaaquin river by Fresno shough, about its accless nextle. From Thiefe lake north to the Sacramenta triver, the valley has a marly uniform fall of a little more than ano tast to the mile in the lowest depression, while the afteroist from the foot-fills, on after sale, in the first largest as a studied a short distant of foot-fills, an after sale, in the first largest contributed for the first largest larg ward the center, average about six feet to the utile. The valls partion of Fresme county mergibes a section about 61 other square. Bevent dishine regions are formed distinct in rain-fail, distinct in soil, distinct as to depth and character of water, and the general facilities for irrigation and entired on. The fertility of the east slide is about twice the area of the west. Fresme canny afferds almost every variety of soil, and a dozen varieties to ay be found often within an area of two inlies square. As a ride, the owier the kills the harder the lace, though there are some exceptions. Along the foot kills, from the Bas Juaquin river, south, are several indicated with while quarks, as much tike the Malaga graps bands of Spain as excend in a acticle the Malaga grape backs of Spate seconds in Strips of this tack extend as for down upon the plain as Fresin. The great half to the plain hand of the en-tire eastern shape, however, he soull, samly losse, indeed with clay, sand, decayed autual and vegetable matter, from and other cultural salts. Henerally speaking, fin 8an Joaquin valley lands are free from alkali. The

country lying west of the San Josquin river is unlike that on the east; while much of the land is black and rich, but the small amount of califall and apparent imposability of abtatoms water, even for drinking perposes, makes, flits region practically a descrit. A large canal has been constructed by Mosses, Allier & Lux, which has brought several thousand seres under culti-

French City.
On the first of May, 1872, nearly 11 years ago, the rathon the first of any, local, newly it years not read company formally healed the heart the geographical center of flor county, on the line of the Southern Parishe Rallroad, 195 miles southeast from Sun Francisco. This knotting little city may has 2,000 inhabitants, and the manual of lousi-mes done and general thrift, she rivals many of the noss from and general Brift, she rivals many of the towns of California of double her age and population. The colonies of Fresno caunty, are morely all in the vicinity of Fresno city; the added is the Central California Colinay, which dates hack to June 1, 1875, when six square miles of band were selected as the sile when six square in the of The had the its close prexhally la-th the enterprise. The had the its close prexhally la-th the line of the Santhern Pacific Rallroad, and two and a half miles south from Fronto city. This land was allyhind into 192 farms of 26 acres cach. Each lot was surveyed with reherence to its haing commanded by water dilchus, and guies were constructed. The first selflers began to make fheir improvements in the full of 1875. At present there are shout 86 families residing of 1816. At present there are added not more resonant to interesting the face colony. Immediately subpiting the above lies like Washington Irrigating Colony, which embraces eleven square miles. This is labl on: Into 20-acro clarks. The land is nearly level, Inclining toward the west. This soil is a rich, samly beam. The sare now a paquiation of about 350 people. Between the first

being three fines as large as the State of Bloode Island. lis length from north to south is his miles, and its greatest brendth is 48 miles. If is separated by a wide strip of manufations territory, untraversed by railroads, from contral Galifornis on the south, the Siskiyon or Const Range sequenting it from the great Sacramente Cond. Range againsting it runs the great sacraments valley, on the east. This longuagableat features seemballing more some of the Eastern States than may ather portion of California. There are no large valleys. It consides of rounded ridges, with practices on tap, and wnould sidua and small valleys between. No spal on withing spins and small, was over favored with such wealth in forest, an according to the world's highway, as Rumbuhlf. The largest area of level land is in the witchilly of Humbahlf hay, on the western Han, about miliway between the north and south line. The Coast lange camanaces at the mean, and fulls back from the const, increasing gradually in height, and it reaches no abryation of same t,440 frot, known as the Bahl IIIIs. They retrent slightly from the ocean, around Ronahuldt lary. This buy is long and marrow. His bought is over 20 milus, in whith ranging from loss than a mile to night inities. The area of the bay is from 36 to 40 square inities, a portion of which is very shallow itsic evater. The exit to the sea is at the south cost.

One-third of this county to as yet unsurveyed, and there are only 15,250 people within its burders; the unassessed banks amount to 1.483.100 acres. Of this there is not more than perhaps one-tenth But might be called waste land, and is the rocky cliffs along the sea sture, and some of the tallest mountains in the eastern gart of the county. The balance of the ensurveyed lands are what might be called grazing lands, the most of if being covered with an inferior growth of similar theory, while some of it may come under the head of

cruch, which also flow tube the assets hay. Del river has a course of more than 125 in the in the county, and will its irthintsches, Vandazan, South Fark and Yager, nach never 100 miles in length, constituting an toportari feature. The Mattoln, with its tott order, 75 of which are in the county, the next sud-last strong of import-ance within the territory of Hamboldi county, is Bea-rier, designating them as we have from north to south, all of which mingle with Paritic waters.

All in which image wint carne wavers.

Brunbuild lime sense rich gold deposits; Orleans bar,
in the nurthenst certur has being heen known as a rich
placer field. Af Gold blinf, on the northwest side, are placer field. Af Giord hand, on the normwest side, are the kinck small boach witness that have been worked for 20 years with good results. Placer relating bas taken a now short, and a birge amount of capital is long matrixen a viscol. There is Hitle or no speculation in this in-tunders, fro, with capital and good judgment, the oc-burns are us sure as any other inglituals enterprise.

turns are as sure as any other inglitimale enterprise.

The low hunds of Humboldt county are worthy of note, although little after the first part to them as yet. In the vicinity of Humboldt hay, between Eureka and Arcain, there are thousands of acres of swamp and coverthowed hands; from Eureka, south, are what is known as the Haukton flats. Then there is another large tract of land, from the Island by Mad river and the course, wouth of Eureka is thoughold to the course, worth of Eureka is thoughold to the course of the unrak south of Eureka to Humboldt point, and still in their south to the asouth of Bet river, all of which would be easy in reclaim, but its yet in a sixte of onlines. The value of these lambs, when

The value of these lamb, when once reclaimed, would be inestimable

Enrekn.

The county seat, has at present a population of 5,000 people, and is the most important place in the county in the heastern slove of thumbald bay, about milway between the intrance and the northern end of the ky, and is the principal stipping point of the county. It is built upon an chickle site, on neady is to ground, gradually along in the northwest, sitording fine draining. Its water froid is very good and have a continuous flow of docks for a distance of eight blocks, where we sels of tance of eight blocks, where we all kinds that ampte room for leading and discharging curgo. Several lines of sleamers ply between a this point and of steamers ply between this point and som Francisco, besides, vessels from all parts of the world come to bee for the excellent redwood funder manufacter of larce. A daily line of stages also runs on Cloveniale is San Francisco, a distance of 713 miles. Euroka also has averal local times of railroad, principally for transporting lumber and logs from the interior to tule water. Considerable ship-build ing is estrict on here by five separate purits, this being an eligible location, as the material for ship-building is to

# Arcutu.

Is consected with Eureka by shomet mirross the bey, a distance of some seven miles, and by a good wagen road, a distance of twelve miles. Arcula task a pupulation of about 1,000, and it has more the appearance of an East ru village those a fallforma lown, If heing decidedly the handsonest turn in the county, and it beasts of the finest elimate in the country. The the agricultural and fruit lunds that surround it are of wonderful fertility, possessing a soil that is literally in ahausitible. It has vast reduced orests in the background, that generations will not exhaust.

# Ferminie.

Ferminite,

Is fire flirid large of town in point of population, containing 185 people, and a few Chinese. It is connected by daily stage with furcks, and is located some righteen unless south. It is beautifully situated, on the south side of ket returnally, about one with beyond Sall river at the fool of the range of bill-bounding Eel river on the south. Pranchs creek, a swift little stream, runs through the fown, abording sphendid facilities for drainage. Ferminale is well situated for a business place, having the farmers on the south and west sides of the valley, and on the other the softlers of the

ness piers, naving the farmers of the sellers of the sides of the valley, and on the other the sellers of the liver river and Mattole sections. This valley is about livelye inflea in length, and from four to eight unless

Involve nifles in length, and from four to eight miles under. This may properly be called the cream of Hume bold rountly as an agricultural district.

Rithmary Iffe,

Rithmary Iffe,

12 miles southered from Eureks, and is pleasantly to ested in the rich valley of Eel river, one mile north of the stream. The principal wagon read of the county passes through the place. It has an excellent farming and grazing country on one side, and redwood timber an thoughte, to back it.

Bytesy Iffe.

so that allow, to back it.

Figless iffu,
Which is causingered the fifth term in the county, has a
normalization of 300 people. It is saturated on high lable
hand manify 300 feed allowed the governal loyel of Lei River valley: It has a time faculting country to back it

Trinchlad, has northwest from Euroka, a distance of 27 rades; it is on the eccan; a felt harbor is here, and a dever-

ment light-house.
The other fewers are Table Bluff, Hookfen, Pafrello, Bluxburg, Garberville and Springville, warry all supported by the lumber interests of the centity.

# INVO COUNTY.

Lius cast of the Storras, the summit of which forms its western boundary horseon this, Tubare, and Freshe contribes; the Stafe line between California and Novada forms its easiern boundary, with San



# HOW TO BUILD A SUMMER-HOUSE,

named colony and the city of Freeno Hes the Freeno Caleny, which, like the predocessors, has been subili-vided into 20 acre tracts. About three unless northwast of Primo goace tracts. About lirre unless northwas of Primo we came to the Semillarytia finne Gulary, consisting at 1,925 acres, which is divided into 95 labs, of 29 acres each. With each lat is sold a perputual water right for purposes of trigation.

Science,

Is also if the unless fram Presson. This thriving town

lucated in a fina agricultural country, level as a floor.

Marform, be altosted 23 miles northwest from Presse. It is all like point where bourists leave the trade and take the stage for 28 Seculie valley. The other favous in the caunty are Centerville, Buchaman, and Foll Home. The entire population of Presson county in 12,000.

# IDMINDLOT COUNTY.

This wounty is not known and approclated, as the exlest of its torritory and the richtons of its rosources
warrant, leying orchived from 8an Franches, 216
inthes to Eureka and Humbolli lasy, its principal harideed by Nach country, on the north from the Oregon Haw by
both Nach country, on the north and each by Nisklyon and
arter,
6. the
"The oregon than and such than the oregon has by
or the oregon having more than 175 inlies
"The oregon having more than 175 inlies
of coast then, and contains an area of 2/211,849 acros,

ndueral buils, which are brested in the north ex-His county, and consist of gold, silver and quartz ledges Since copper beinges have been discovered in the mark, are partion. Out is also known to exist is portions of the caunty. The serious attack that are being farmed are but a small portion of what might be utilized, and which no doubt will be when it becames more settled.

The lumbering believed exceeds all other industries in the county. The acreage of redwood limber within the kordens are about 56 indice in longth, and will aver-age (welve wiles to width, amounting to about 756,286 meres; this thuber will furnish from 50,686 fo 100,000 fred to the acre; there are some invalides that will produce took come for the mere. The number of feet of standing redward by variously estimated by will more. and the figures given are from seventy is and hundred billion foot

Humbahl is one of the bost watered counfles to Cal-Humbath from of the bost vatered conflow to Cal-fornia. Beginning in the machine part, the brigod strong is the Klamath river, which has a course of some 86 aither within the county. The Theiry, he large and triticatery, is its south fork, and flows mare then 60 aither within the county. Rodwood creek has a course of mare than 106 aither in the county, and emption into the count about 25 aither south of the month of the Klamath. Several creeks of loss huperbance also show which the access south of this point. Cittle clave counties lute the reven worth of this point. Altheriver caption but the country miles worth of Trinklad, and have course, from source to mouth, of uses to miles. Mad river have course of over 104 miles in the county, flowby the accuracy of the control of the county, flow-ing for arcthworderly direction, and complete that the Paolife Ocean, just alove Humindiff lay, staroly creek and Frosh water are small streams of some eight to twelve united in length, and forth flow into Humindiahl bay. A little tacther south are like river and balance

Remartino county immediately sunth, and Mono north of it. It is almost as much isolated from San Francisco as though it belonged to some other This is a country where extremes meet; a country of startling contrasts, such as are to be found numbers else on the continent; a country of rngged and glout peaks, among which are Mounts Whitney, Tyndail, Brewer, and others of the Sierras, the most elevated portlons of the American continent, with chasms such as to render an ascent to their summits, from their castern slopes, almost an impossibility; a country where, to the eastward of these, pointing heavenward, the earth's surface sinks hundreds of feet heneath the tevel of the sea, (Death valley, which is elsewhere described); a country of beautiful and fertile plains, and, at the same time, of forbidding wastes; a country of almost Arctic frosts and perpetual snows, and torrid, acording heat. Its principal, and simost only valley capable of settlement for agricultural purposes, is the valley of Owen's river, which takes its water from the Sierras, nearly opposite the headwaters of the San Joaquin, and flowing theuce distance of 150 miles south, where it is lost in Owen's lake. This valley is good 75 miles long, and from two to five miles wide. The principal farming is within this basin; not, however, in valley of the river proper, but on the numerons small mountain streams flowing down from the Sierras on the west, from which the waters are derived for irrigation, producing wheat, barley, oats, corn and fruits-principally peaches and grapes. Whatever the farmer produces finds ready sale, at

good prices, in the immediate mining districts of Inyo, and across the line in Nevada. One of the richest mines ou the Coast, known as the Union Consoli-dated, of the Cerro Ourdo district, which lies to the In yo mountains, forming the eastern wall of Owens vallias already ley, gielded over \$10,-000,000. In the sams district are other noted mines, such as Ygnacio, San Lucas, and Palmer. To the south of Cerro Gordo ar Darwin, Lookout, and Pana-The Kearmint. sarge series of mines, the Rex Montes, and other independent lacations are aitusted iti the Kearsarge peak, directly west of the town of

Independence, The county seat, sit-nated on the western side of Owen's river valtey, with a population of 850 people. In 1880 the whole county limb a white population of only 2,838.

The mineral resources of Inyo county are not yet prospected. If railroads should ever tap this county, which, no doubt, soon will be this sparsely-settled county, with her mountains of silver, her mineral beds of borax, and her ledges of gold quartz will teem with Industries which at present we exceed thought of The which, at present, are scarcely thought of. The area of the county is 6,500,000 acres.

# KERN COUNTY.

Last of the great chain of counties of the San Josquin valley is that of Kern, bounded on the north by Tulare and Inyo, east by San Rernanlino, south by Los Angeles, and west by San Luis Ohispo. It derives its name from the Kern river, being named in honor of Lieut, Kern, who accompanied Gen. Premont on lils early exploring expedition to the Pacific Coast. Here the valley comes to an abrupt and, being shut off by a high surrounding of mountains, forming the main chain the Sierra Nevada and the Coast Range. valley portion, although covering nearly 1,000,000 acres, is but a small portion of the county, as the entire area la 5,137.920 acres.

The topography of the county is exceedingly di-ersised. The chaotic jumble of barren mountains, where the two great ranges unite together with the wast samly describ that encompass them on either side, torm a confusion of the most furbidding elements of nature. The redeeming feature of Kern is the mobile river that leads in the mountains first nesses of Tulare county, and breaks through this hills, down a deep, precipitous gorge, descending many thinusand feet in a few miles, and rolling out upon the plains. As it reaches the val-

ley it spreads into devinus channels, making a large deita, which is called Kern ishuid. So capricions is the stream that a slight impediment made it fly off on a tungent, a few years ago, culting a new channel, whose mouth was 55 miles from that of its original had, Kern and Buena Vista lakes receive the water of the river, and, in turn, discharge it into Tulare lake. Some of the most productive farms in all California have been made on Kern islami, within the past few years where naught but grass and sage brush formerly This has been accomplished, by means of a liberal expenditure of cap tal in the construction of irrigating canals, which now ramify all parts of the island. Without irrigation very little would be produced in Kero county. An ample supply of eater is furnished by Kern river, which has a drainage area of 2.382 square miles. The amnual rain-fall of the valley rarely exceeds three to four inches, which is insufficient to muture any kind of crops. There are a number of large ranches under cultivation and irrigation, the largest being those of Messrs, Haggin & Carr. The present developmeut of the agricultural julercats of Kern county is so lurgely due to the enterprise of these San Francisco capitalists, that, without them, this county would have been in a comparatively wild condilion

There is every Indication of the existence of immense reservoirs of petroleum in the western por-tion of Kern county. The hitminons shales and sandstone formations are identical with those of the oil regions of Pennsylvania and Virginia, and conLAKE COUNTY.

Same 75 miles due north from San Francisco, is bounded on the north and northwest by Mendicina on the morte and north-east by Coluss, on the south by Nicpa, and on the south-west by Sources, while Yolo corners it on the south-east. Lake is one of the smaller counties of California, having an area of 624 000 acres of surface, and in shape is is nearly a perfect oval,

Luke county possesses certain peculiar resources and attractions which are sore, in time, to make it famous and prosperous. At present it is somewhat isolated, as there are no railroads fouching it. Calistoga, the terminus of the Napa branch California Paciflo, is some twelve miles from the south line of the county, and Cloverdale, the fer minus of the San Francisco & North Pacific, is fifleen miles from the west line of the county, general topography is rolling and lolly. Locuted in the Coust Range of mountains, Mount St. John, highest point in the county, is situated at the extreme north end, some 4,000 feet shove scalevel. Clear lake, which lies nearly in the mubble of the county, forms one of its principal features; this lake is about 22 miles in length, with an average of from three to six miles wile, lying from north-east to south-west. The Blue lakes, three in number, are surrounded by some of the finest seenery in the country. Cache creek, clear and sparkling, is the outlet of Clear lake. Putali and St. Helena cre head in the southern portion of the county. Mid-dle and Clear creeks, two beautiful little streams, empty into Olear lake. One brauch of Cache creek various parts of the county. Fruits of all kinds, and as upples, pears, plums, spricets, peaches, and printes do remarkably well; most of the exchands are young, and just coming into bearing. Sheep-raiding is one of the principal industries of the county, as the extensive range afferded by the mountains and footbills make it a profitable business. The southern purtuen of the county is shirted by a semicirale of rolling hills, of a metamurphlo, cretaceous rock, rich in deposits of ciuni-Several extensive quicksiiver mines are now being worked. Two of these, the Sulphur Bank and Great Western are extremely righ, There are several other mines that are righ in this mineral. the cast site of Olcar lake is Burax lake, where that mineral is found in its mud.

laskeport,

The county seat, is the largest town in the county, and it is altunted on the west margin of Clear lake It contains almut 1.200 luliubitunts, and is beantifully and picturesquely situated. About seven miles southwest, is

In Big valley, one of the finest agricultural sections in the county. This place contains about 600 inhabitunts. Lower Lake,

Located about two nilles from the lake, is a place of considerable trade, it being the markel-place for the Sulphur Bank mine, in the immediate vicinity, Here are also several productive, this valleys. The town new contains about 700 min bitants, and is quite a business place.

# Upper Lake.

About one mile from the upper or northern portion of Clear lake talus almut 350 penple. In the ex. the county, on the sings line between Lakeport and Calistoga, the terminus of the C. P. R R.; and about eighteen miles from the latter place, is the village of

Middelessu. A place of some 400 inhabitatits, in the vicinity of which located several of the quicksilver mines. What Lake county most needs is railroad communnication with other parts of the Siste, then this fevored district, with its inrigorating clinuate, beautiful scenery, forests of timber, mineral springs, her extensive lime d. extensive fine d -pustla, pastnres that afford grazing for bundreds of thousands of sheep, sunny hillsides, the sheep natural home of the grape, fine fruit and vegetable? I and a,

we are compelled to believe her future prospects are very bright. This is yet a compountively new county, and many of its resources are but paritally developed; yet it is so near San Franci-co, the great commercial center of the Pacific Cuast, that when it is once tapped by rail, it will change as it by magic. The census of 1880 gare Lake a population of 6,127, which, at present, may be 6.500.

LASSEN COUNTY Was formed, in 1864, from the eastern purlions of Shasta and Planus counties, and joins the former on the seet, and the latter on the suith, Modos on the north and the State of Nevada on the cast. It has an area of 3,040,000 acres, and is very irregular in shape, being about 105 miles in length, from north to south, and 50 miles in aidth. This county is a succession of mountain ranges and valleys, and has a general troud to the sunth-east and write-west, intersporsed with immorous heariful lakes, the largest, located in the south end of county, is called Honey lake, and is saturded in a heartiful valley of the same name; this valley is 45 miles in length, with an average wilth of ten to fifteen miles, and embraces the principal farming land under present oultivation. Long cultey lies in the extreme sueth-east of the county. In the extreme north-west corner, and extending into Maccounty, lies Big sulley, a large stretch of agric turul land, containing, in Lasson county, about 75,-000 neros, which is well outered by Pitt river, Ash oreok and a number of smaller streams. Between Big and Honey lake valleys lie Grasshopper, Willow



HUMBOLDT LOGGING RAILWAY. View taken Oct. 8th, 1881. Contents of Train 100,000 feet of Redwood, log scale.

of places. At one point petroleum has been col-lected from springs to the extent of several thousand harrels, which is of a heavier and less volatile character than the hydro-carbons of the East. phal'um also covers thousands of acres of land. This oil belt runs through Los Angeles, Ventura and Sania Barbara counties, where it has been developed to some extent. Kern, for so large a county, is but sparsely settled, the crusus of 1880 showing 5 600 people. At the present time the population probably amounts to 6,000.

# Bickeraffeld.

The county seat, is the principal town in the county, and lies 306 miles south-east from San Francisco It is situated in a grove of large cottonwood, sycamore and willow trees, on the sandy bottom, a cent to Kern river, and about one mile west of Southern Pacific Railroad. It has a population of about 1,000. The second largest town in the Summer, the railroad station county Bakersfield, and claims a nopulation of 200 inhabfrants

Calleute was a town of consideral importance during the time of constructing the railroad, but its glory has faded and its houses have mostly be removed elsewhere,

Tehichiplis at the summit of Tehichipl pass, or the rullruad, and has considerable laterests in hunher, woul and murtile, of which a rare variety has resently been found,

Molaye, 370 mllos south fruig San Francisco, la la the great Mojave desert, on the eastern side of the monatains. Stages leave this point for independence, Inyo county, 150 miles distant.

siderable oil exudes from the surface in hundreds liesda up in the northern portion of the county, a lands that are cheap, will become known. When of places. At one point petroleum has been columb and has a course of some 25 miles within its born we consider the natural advantages of Lake county, a course of some 25 miles within its borders. There are numerous other small mountain

Lake county abounds with injueral springs, the

waters of which possess great medical virtues. Bartlett's, Highland, Harbin's, Pearson's, Seigle's and Anderson's are liest known abroad, but there are a dozen others whose waters are very flue, and which will become famous in time. The agricultural portions of the county are Clear lake valley. Big and Long valleys, on either sitto of the lake, and Scott's, Cobb, Coyote, Lower Lake, and Murgan con-tilute the principal vatleys of the county, They curbrace, in all, from 80,000 to 120,000 heres, comprising the very best land for wheat, harky, oats, pointoes, and vegetables of all kinds. Those valleys are well watered, and there is never any occusion to call upon artificial means to insure good Farms generally do not exceed 900 extent. 'the tills that surround these valleys are composed of the best of soil for grapes, and wherever, especially in southern Lake, experiments have been tried, the vines have proved very hardy, productive, and remunerative. ature of the climate is higher, and there is less early and late fresh than in some other vineyard caunties of California. So great are the capabilities Lake county in this ludiestry, that the attention of capitalists are already being directed to it, and this your a large area has been planted to vines, by the California Improvement Company, a curporation which has done much to develop the resunrees This has attracted the attention of other land-nwners, who are making extensive proparations for planting thousands of sores to vince in

orcek, Eagle lake and Horse lake valleys, separated from each other from the main valleys by latervening ridges of vairous heights. Each of the lastnamed valleys are small and mostly occupied by the bulles of water from which they derive their names. In the eastern central part he the Made line plains, a large level trant of land, at an alti-tude of 5,200 feet, which, at some remote period, was the bed of a lake. It is about 35 by 15 miles in oxient, and, at present, is nearly covered by a donse growth of sago brush. The only natural source of urilgation appears to be the springs about its edge, where there are excellent stock the surrounding lifts being covered with innich grass, affording aloundant feed. The average altithe valley lands are 4,000 feet and over, while the monutains are from 8,000 feet down The whote enanty is of a lava formation, but this is not preceptible upon the surface, except in par-ticular legalities. The soil is generally fertile.

tientar landities. The soil is generally fertile.

The timber belt of the Sierras extends into the western portion of the county until they full below the tember helt. This timber, consisting of pine (yellow and sugar), apruce and tir, is an immense source of revenue, and will in time, when the railroad reaches the county, he valuable. At present, it is somewhat isolated; Beno, Nevada, nn the C. P. R. R. is the negrest point, which is 90 mites south east from Susanville, the county seat of Lassen. A line of railroad has been surveyed from Reno, north through Lassen and Modoc counties, Calitornia, into castern Oregon, which, when built, will open up a fine agricultural and timber country Sasanville,
The county seat, is beautifully situated on a slight

platean in the western end of Honey valley, and has a population of 600. The United States Land Office, for the northeast district of Catifornia, is located here. which adds considerable to the importance of the place. Stages connect (daily) this place with Reno, Nevada, also to Al-Modoc county, and a tri-weekly to Otoville, Butle county,

# Millford.

Twenty-five mites from Susanville, on the Reno road, and in the lower end of Honey lake valley, has about 300 inhabitants. Opposite the town, and across the lake, which is about ten miles wide, there is an extensive stretch of bay country. In the immediate vicinity of the town are as fine orchards as can be found in the State. The climate here is peculiarly adapted to the raising of fine apples, pears, penches, plums, grapes and other fruits,

Janeaville
Midway between Susanville and Milford,
has about 350 inhabitants. A few miles away, and within the same voting precinct, is the small town of Buntingville, surrounded by some of the finest farming lands in the county.

Juliustonville, Eight miles further up the valley, Susan river, has a population of 300. As it is only four miles from Susanville, it may be considered an adjunct.

Bieteer, A small town in Big valley, near Adin in Modoc county, and about 25 miles from Havden hill, has several hundred inhabiants. It is a depot of supplies for the mines of Hayden hill; these mines consist of a decomposed quartz, which proving to be very rich. The mines at Mountain meadows, on the divide between Plumas and Lassen counties, are said to pay well.

Lassen is not without her hot springs, which are located in Honey lake valley, 20 miles from Susanville; from the latter place, on a clear frosty day, can be seen hanging over them in clouds, Black Britte, an extinct crater, located on the lin between Lassen and Shasta counties, is a peculiar latural phenomenon; it rises almost serper n the shape of a fastrum, to a height of 472 feet, with a width of 750 feet across the top. The plain incrounding it is covered by volcanic scoria, rangng in size from a rubin's egg to fine dust. Numerous small lakes doi the surface, but for which, the sounty would appear a scene of devolution. Lassen sounty should have a prosperous future, as it has at least a million acres of fertile land susceptible entitivation. At present, it has only about 3,500 ubabitants, the greater portion of whilm are sent-ered on the farms in the various valleys; this ecounts, in some measure, for the smallness of

# LOS ANGELES COUNTY.

An attempt to give a minute description of a country that has the great range of mountain, val-ley, soil, etimate and natural advantages that Los Angeles pussesses, in an article limited to space to this, would be simply impossible. This amount of space could easily be used to describing one vailey section alone. Los Augeles is by fur the most luxportant county in southern California on according its peculiar and many vatural advantages. on the ocean; on the cast it is bounded by Saw BerTids bustling little city; now hus appointment and froit country as there is on the cast. It is on the line of the rathroad between Loss Angeles and San Diego.
Tids bustling little city; now hus appopulation of

merdino, on the north by Kern, and on the west by Ventura counties. It has an area of 3,080,000 acre of surface, the Coust Range of mountains running diagonalty through the county from a northwesterly to a southeasterly direction, dividing the county tnto two equal parts. The most productive portion lies in the southern part of the county, mountsinous portion of the county are numerous valleys, each one being different in climate, as well as many different qualities of soll. The only of Los Angeles, which is the largest city on the coast south of San Francisco, is also a great railroad center for all southern California and Arizona. The transcontinental Bouthern Pacific, with branches leading out in various directions—one directly west to Santa Monica, agother south to Wilmington, still another southeast to San Diego, besides the overland road cost of a. San Bernardino; all these roads being delied along with prosperous towns and villages, making Los Angeles the great commercial center of this whole southern country. We will simply enumerate the different valley sections of the county, presenting them in such a shape as to make their geographical relation to each other better understood, noticing a few of the principal features in each. Passing over the Southern Pacific Railroad, one enters the county near the northwestern corner of the Mojave desert, and traveling south will are to the east this desert reaching in an almost unbroken plain to the far waters of the Colorsdo river, whilst to the west there appears the foot-hills of the Tejou mountains, embracing within their limits the Lake Etizabeth section. In the vicinity of this lake are a number of small valleys. Continuing southward through the Sole.

1.800. It will, no doubt, some day in the near future, become an interior city of considerable linportanco, as it is situated in a thickly settled country. Between Los Angeles and Bauta Annis Annheim.

Settled by the oldest and most noted colony in the bistory of the State. Situated to an agricultural acction that has greater possibilities of simhar are than any county in the State, the hand is all irrlgated from large ditches taking the water from the Santa Ana river and from the minurous artesian wells, furnishing an inexhaustible supply of water. The whole county is subdivided into 20-acre farms and unwards, and for the cuttivition of the orange, lemon and limo, the tand about here is un surpassed. The settlers are principally Germans, who onlilvate every foot of land, and it is really astonishing to see what a few years of well directed energy will accomplish in this wonderful country. A few years ago, before water was introduced on ic this land, it was a barron piain, and as devoid of vegetation as a barn floor. At present there are orange orchards bonding beneath the weight of truit, hearing vines of every variety, also every variety of northern fruit, such as apples, pears, peaches, etc. The agricultural products are corn, barley, ryo, beans, potatoes, onious, hops, thux, etc. other towns in the southern portton of the county are Westminster, Garden Grove, Tustin City, San Juan Gapistrano, and Norwalk

### Westminister

Six miles west of Akabeim, is a thriving place, and is noted for the number of its artesian wells-about 400. Garden Grovo, about three miles from Westminister, is surrounded by land that produces im-

# SCENE ON THE SACRAMENTO NEAR MARTINEZ.

dad range of the Sierra Madra, on a steep descending incline, and passing the mining camp of Soledad twenty miles to the east, the upper end of the Santa Clara river is reached, to the town of New hall. Onward south, but now ascending the north of the San Fernando range, the road pass through the petroleum district, through San Fernando tunnel, on a steep down grade, to the head of San Fernando valley, which has fine agricultural Here is located the old mission of San Fernando; immediately around it are the oldest and largest olive orchards in southern Catifornia. and largest once orenaris in southern California.

Passing on in a southeasterly direction across the

San Fernando plain, we soon come in sight of

Law Angeles City.

Which, at present, hus about 15,000 inhabitants.

Los Angeles is one of the oldest settled places in the State; the old Mexican portion of the town will its tile-covered adobe buildings, may still be seen in the upper portion of the city. Los Angeles is surrounded with one of the first fruit sections in California—principally semi-troplent; such as pranges, lensins, three, raish grapes, otives, etc. The elty contains many handsome public and privaic buildings. As Los Angeles is a great rallroad center, it contains many large wholesate housees which turve is extensive trada throughout solution California, Arizona avil Now Mexico. Passing on soull through atmost one continued arong and soull-tropical fruit region a distance of 92 miles brings as to the second largest town in the county, that of

# Santa Ann.

mense crops of coin. Thattn city is signated I wo miles cast of Santa Ann. Grange is a pretty place, and very antiv named; orange groves cluster thickly all around the settlement. San Juan Capistrano, 33 miles south from Santa Ana, is famous chiefly for the possession of a picturesque old Mission, built in 1776 The celebrated Black Star cost mine is twelve miles east of Analieim. keeping in the neighboring mountains is quite an The canvons are crowded with bee ranches, producing large quantities of honey. From Los Augeles east that the Southern Pacific

Railroud, a short distance, brings us to San Gabriel vulley, one of the finest sections in the county. A fow miles from the railroad is Pasadeua. From here the Santa Ann Bancho la the east, a distance of fifteen mites, the country has become almost one indiroken vinnyard and orange orchurd. To attempt its description would accupy too min ome five mites oust brings us to the villiages of Savannah and Lexington, the losslur centers of El Monte settlement. Durune City an Durville Clty and Gospel Swamps are noted for the best corn-pruduc ing in California. Still further cust takes us into San Jose valley, watered by Nan Juse creek; this is also a flue agricustural soution. The next station cust is Possons, the eastern limit of the county, which is quite a large village. There are many other values and settlements peculiar to themselves, whitch we can not mention for want of space. Los Augeles had a while population, in 1880, of 33, 379, which has largely hiereased within the past tive vents, and at the present writing, it has no less than 40,000. Taking into consideration the divor-sified soil, valleys, fact-hills, chevated plains, and fine, genial climate, we must say Los Angeles has a bright future!

MARIN COUNTY

Is situated on the north side of the Golden Gate. and is bounded south and west by the Pacific ocean, east by the bay of San Prancisco and San Pablu, and worth by Bonoms canniv; this irregular In shape, and has an area of 357,196 acres of sun face; 331 439 acres of this is uplant, while 12,975 acres is swamp and overflowed lands along the bays and estuaries and 12,790 acres is tide land, which will, some day, be levied in and become very value The surface of the country is mostly broken and hilly, and a great deal of it is composed of tight and sharp rugged hills, which, in several instances, attain elevations sufficient to entitle them to be denominated mountains. Notwithstanding its hilly nature the land is very valuable. The prevaling winds of summer come from the sea and pour upon the tills and valleys, in the western and southern parts of the county, a constant stream of moisture, in the shape of fog, which keeps the grain green long after it liss withered and died in the foterlor parts of the State. As a consequence, this section of green grass is sought after by dairymen, who would keep up their supply of fresh butter, Hence, at an early day, Martn county was and is now occupied by the most skillful dairymen in the State. The population of the county, in 1980, was 11,307, besides the inevitable Chinese, numbering about 1,500, who are largely engaged in the fish ortes along the shores of the bays.

The highest elevation in the county is Monni

Tamatpais, which is 2,609 feet above the level of the sca, and from its peak (which is easy of second and only from six to eight miles from Sin Rafael, the county seati, on a clear day, may be had the finest view of the Gothen Gate, the broad

waters of the Pacific, the entire surface of San Francisco bay, lusides eight or ten towns, cities and villagesaround this, one of the finest harbors of the known world.

There is very little farming land in the county. The soil, in the small valleys, is usually of a black, toamy nature, and is excellent for vegetables. On the rolling lands, the soil on top is mostly of a black dobe nature, mixed with gravel and soft clay sobsoil, and is very productive of the natural grasses. Lands used for dairying are never plowed. There is none of the cultivated grasses, cummon in the East, as rec and white clover, timothy, red-top, etc.; in their places, are the native grass adspited to the country, and are known as bunch grass; they spring up at the beginning of the ratufall, in November, and continue to grow during the winter months, If the winter is open as it usually is, there is good pasture for stock, with but little use of cured feed. The hey used is natsor barley; smail portions of land is seeded in grain each year, which is ont, with the mower, before maturity; it makes excettent tisy. In the small richer valleys, crops of beets are produced, which are fed with dry

# San Bafael,

The county seat, is situated fourteen miles from San Francisco, and has about 2 000 inhabitants. It is beamifully situated in a basin east from Mt. Tamatpais and is connected by the S. F. & N. P. C. R. B., which runs north the county terminating at Duncan Mills, in Socoma cninty; the company also have a line of ferries, which cross the bay, a distance of twelve miles. The climate is unequaled for health, and

is the home of many San Francisco business men Many thousand people, during summer months, resort to the vienity for pienles

Six miles from San Francisco, is connected by ferry, making four trips per day. It is built at the base, and on the slope of steep hitts, and is the principal depot for the N. P. C. R. R. Sin Quertin is twelve miles from San Francisco and is cor. nected by ferry, the N. P. C. R. R. and the S. F. &

Tomales,
Fifty-five miles from San Francisco on the N. P. C. R. R., is the center of the principal farming and dairying country of the county, and contains about 100 inhatritants. Nicasio, Novato and Glemo are small stations along the railroad. Bulmas, on a 400 inhabitents. lony of the same name, near the coast, communicates with San Francisco by sailing vessels. The bracing elimate, cheap living and fine scenary make Murin a desirable place for city people to apond their aumiwer varation.

# MARIPOSA COUNTY

Is triangular in shape, with its worth side bounded by Tuolumno, its south by Presno, while Merced lies at 11s western linse. It lins an area of 988,000 acres the greater portion of which is wonntaining and liffly, and is remarkable as containing Yo valley, which has been fully described elsewhere. The topographical features strongly resemble El Dorada, Amador sixt Calaveras, as it occupies nearly the some position on the western stope of the Slerras; its eastern poytion is above the snow this and its costorn larder extending into the great Ban Janquin valley. It is watered by the Mercel river, and its tributaries, and by the Maripess

both rivers rise in the county; the first, by the time it joins the San Josquin, is quite an impurient stream, fluwing over precipices and through fleep canyons, until it reacher the western boundary the county. Mariposa is one of the best timbered counties along the western slope of the Sierrus, which consists of excellent saw timber, such as several species of pine, spruce, fir and Sequoins or big tree timber

This is, strictly speaking, a mining region-prineipally gold. There are probably more gold-hearing quartz-veins than are to be found in any other territory of similar size in the State. A large portion of it is not yet prospected. Thenty-six quartz mills are within the limits of the county. placer mines have been fabrilously rich in course gold, and the precious metals taken from the Muri posa mines would figure up in the millions. Some of the principal mines in the county are the Washington, near Harmtos; the Ferguson, on Mirced rivir; Maxwell, Mary Harrison, Malvina, Putosi, Marhle Spring, Martin, Wailing, Virginia, Penon, Blanco and Oronn Lead, all in the vicinity of Coul-The Hiter's Cove is one of the best paytervitle. ing in the county. Bull creek is a section of min-ing country, about eighteen miles above Coulterville, and includes quite a number of guld-bearing quartz veins, which, as a whole, are known to be rich in gold, and are likely to be worked in lime. The Ocargia Point, and a unmber of others we do not now recollect-all valuable-are worked some extent.

The soil, in the valley portion of the county, is usually fartile, and adapted to limited farmingespecially where water can be had for irrigationprincipally fruit, vegetables and grasses, Fruit and grapes raised here, in the small valleys in mountains, have a prouling fine flavor. Sheep raising is quite an industry in this county.

# Towns

Mariposo, the county seat, hes 185 miles sonthowst from San Francisco, and contains about 700 people Hornitas-an old mining town, on the stage road between Merced (on the S. P. R. R.) and Mariposa, and about twenty miles from the latter place-is situated in a fine mining country. While the neighborhood is dolted with quartz, a number of small ranches, farms and gardens raise a sufficiency of cattle, hogs, harley, hey, vegetables, etc., for home consumption. Conferville is also a mluing town, situated about 25 miles from Mariposa, on the Merceil river; though surrounded by a vast quartz region, it is not without a number of small farms, oronards and gardens.

The county contained, in 1880, a population of 4,389, but amounts, at the present writing, to 4,500, The climate, especially during the summer months, is salubrinus, and the scenery grand and picturesque; vouched for by thousands of tourists, from all parts of world, who visit the famed Yo Semite annually.

# MENDOCINO COUNTY.

Is in the northwestern portion of the State, the county from the Oregon line, and line lengthwise along the waters of the Pacific ocesu, between Humboldt and Trinity on the north, and Sonoma on the south, bordering on Teliamin, Lake counties on the east. It has an area of 2 280,000 acres, and the surface of its territory is quite monutainous and broken, the Coast Range occupying its entire extent, some of the highest peaks reaching 4,000 feet. Mendocino is one of the best watered countries in the State by innumerable streams, among which is the Russian river, flowing through the aouthern part of the county, forming quite an extended valley within its borders. Lel river, which also waters very valuable agricultural lands, including Eden valley, rises very near the source of the Russian river, and flows north entirely through Mendocino and into Humboldt county. Besides these rivers are the Navarro, Walhalla, Albion, Nayo, Rio Graud, Gareia, Ten Mile and Little rivers, (?) with Salmon, Greenwood, Walhalla. Pudding, Alder and Brush creeks, all good-sized atreams. The great wealth of this county is in its redwood timber, of which it has almost an mexhaustsbie supply. This redwood trailer helt extends all along the coast, reaching back from eight to twelve miles, and in some instances along the atreams farther rate the interior. A number of the streams flowing into the ocean afford very good barhors at their mouths for steamers and coasting vessels during a greater part of the year. Among the most prominent points upon the cosst are Puint Areas and Point Cabrillo, while the most impor-tant inlets, which in some cases are beautiful sheets of water, and in nearly all affording safe and commodious shipping points to the coasting trade, are Sucher cove, Cuffey's cove and Ferguson's cove, An immense amount of lumber is shipped from these patiets annually. Some of the largest saw mills on the coast are located in this timber helt, and no less than six different local railroads are in operation, engaged in the lumber trade. Among them are Salmon Creek Statiroad, Mendouluo Rait-road, Casper Creek Statiroad, Gualala Italiroad, Nuys & Pudding Raticoal, and Athlon Raticoal. Twenty-four raw mills are in operation along the cost, with capacities to cut from 5,000 feet coast, with capacities to out from 5,000 feet to 75,000 feet daily. Over 400,000 rathroad fice and several hundred thousand leuce posts were

shipped last year to San Francisco, besides large amounts of slungles. Considering the mountainone character of Memberino, its showing as to agriis must excellent, and many of its numerous valleys along the water-courses are among the most fertile spots in the State, producing large amounts of cereals, hops, potatoes, hay and vego-tablee. A great portion of the county is still Goverument lamb. The S. F. & N. P. R. R., from Son Francisco to Cloverdale, within a short distance of its southern line, furnishes communication for the Russian river valley, and stages run daily from the latter nince to

### Ukhib.

The principal town and county sent, situated in Russian river-valley in a fine agricultural country, miles from the terminous of the railroad has a population of 1,200. It is in the central northe county, and is the depot for the exportation of large amounts of wool, hops, and verious kinds of farm products. The climate is delightful, the location pleasant, and the town prosperous. The second largest town is

# Memberlan City.

Located on the coast 55 miles northwest from Ukiah, its communication with San Francisco being princiThe population for 1880 was 5,500, which may have readled 6 000 at the present time. Fully three fourths of the land is susceptible of cultivation, the remainder being sultable only for grazing. In seasons of abundant rainfall excellent crops are ma-tured, the yield of wheat, hi some classes of hind specially adapted to its growth, being frequently as high as fifty bustness to the acre. The genera The general failure of crups in a senson of little rainfull, points forcibly to the necessity of providing a thorough system of irrigntion, and it is gratifying to note that the lessons of the past, in this regard, are not unheeded, as the farmers have organized various irrigating enterprises on a large scate, the value of irrigating ditches, according to the Asse report, showing \$12,750 for last year which have ticen largely increased the present season. genlogical formation of the country is such that thiwing water from Artesian wells may be obtained at a depth of from 250 to 300 feet. Numerous wells have recently been successfully bored in the region along the San Josquin river, which flow through the county in a northerly direction, divid-

ing the county into two nearly equal parts. The river here is a fine stream, 100 yards while, and, for a mile or two on either side, the land is known as



SALMON FISHING ON EEL RIVER-Casting the Net,



HAULING IN THE NET.

pally by steam and sailing vessels. The town has 900 people, largely interested in the lumber trade. Point Arenn,

Ia a town of 500 inhabitants, and is situated on the

coast. There are a large number of small towns in the county, such as West Porl, 500; Chaper, 500; Willets, 400; Covela, 300; Cuffey's covo, 350; Albian, 200; Guslala, 200; Kibesilah, 200; Hopland, 100; Culprilla, 450; Calito, 50; Ponto, 50; Centerville, 75; Beonville, 50; Little River, 150, and many other smaller places, such as Are, Anderson, Big River, Bridgeport, Big Rock, Buchanan, Brals Lunding, Blue Ruch, Christine, Compiche, Caroll, Casper, Cottonbee, Ecl River, Galtoway, Oarria, Hot Springs, Lima, Long Valley, Manchester, Oriental, Valley, Sherwood, Senal, William and Yerk-The population of the cuttre county at this villo. time is fully 14,000, and is last settling up, as there is a large amount of cheap land, and the capabilities of the county are sufficient to support ten times lis present population

# MERCED COUNTY

Is bounded on the north by Stanislans, esst by Mariposa, south by Fresno, and west by Santa Clara and San Benito counties, and it reaches the summit of the Coast Range on the west to the base of the Sperras, on the cast, are area of 1,155,836 heres, embracing the whole width of the Ban Joaquin valley.

overflowed. It is devoted principally to cattle-raising. The next river in size is the Merced, from which the county takealts name. Its average width is about 50 yards, entering the county near the northeast corner, and flows, at first, rapidly along, forming magnificent water-power for maintaging ing; as it nears the San Joaquin it becomes mure quiet and unites with that river near the middle of the northern boundary of Merced county. Along this river, throughout the county, elevated a lew feet above high water, are the bottoms of the Merseil, composing the richest alluvial sell, and producing the finest crops of grain, cotton, corn, vege tablea, etc. In places, at high-water, three bottoms are overflowed, but only immediately along the river, and not for a sufficient time in interfere with their outliviation. The lands between the Mirced their contribution. The lands better the Earlier and Earlier the Earlier three lands are the title lands, along the San Jonquin river, which are grazing lands. Then there is a class of lamits that vary from a r gravelly and states alkali, scattered through the country, which are unfit for cultivation, and are used as grazing binds for cuttle and sheep. On the west side of the San Joseph river is an irregating canal, which enters the county on the south line, d flows directly through to the north the into suisland county, the soil being of an excellent

lule land, and, in winter, during high water, is

louin, almost perfectly level. Lambs in the southern part of the county are rolling and hilly, the soil in many places being a rich loam, but crops are uncertain on account of the light rainfull in this locality. On nearly all the settled places are tound orrhords of peach and pear trees and a tew vines of different varieties, but only along the Mercel tiver are these in any way extensive. Grapes of every variety grow as well here, along the eastern portion as in any part of the State

limber, for they out, is ablainable from the foothills of both mountain ranges, from the river bottoms, and from drift brought down the various streams. On many forms are fine, spreading take, growing chiefly along the banks of streams, which, apart from their commercial value, hand a charm to the otherwise treeless plants. Lumber for building is brough) from tide-water and from the mountains. In many places stone is found convent in for hulding, and material for brock-multing abounds everywhere, Farming is carried on with all kinds of labor-saving muchinery; gang-places are in universal use, the soil being broken from two to four inches deep. Combined headers and thresbers are used to harvest the grain.

Merced falls, which are 22% miles from Merci d. pusses water-power capable of running a vast amount of madifiers

Murcoil CHy
Is the county seat, and is bountifully situated on the S. P. R. R., 151 miles southeast from San Francisco. It is surrounded by a budy of fine ferming land, and is centrally located. In addition in the trade of the vicinity it commands a large mountain traffic from Mariposa county. Merced has, at present, a population of 1,700. The second largest town Snelling

The former county seat, beautifully situated on the Merced river, embowered in trees, and surrounded ty fine farms. Its settlement dates from 1851, though the town was not regularly bail but motil 1856, when it became the county sent, which, bowever, was removed to Merceil City when the railbuilt Snelling is situated on the Stockton and Mariposa wagon-road, sixteen indes from Morced. It now has a population of 150. The other towns in the county are Philishurg.

A railroad shipping point, ten miles south of Mer ced, which has large grain warehous a and about 100 int-akitants; Athlone, also a railroad station, of perhaps, 50 inhabitants; Crosses stains, another grain shipping point, on the railroad; Atwater, six miles north of Mercell, a grain shipping point; Los Banos, a Spanish town on the west of the San Josquin river, containing a population of 100 people; Central Point, and Haopion.

# MODOC COUNTY.

In the northeast coroer of California, homiled on the north by Oregon, east by the State of Nevada south by Lassen, west by Siskiyon counties, California, we find the only county in the State lying in a Modoc has an area of 2 four-square section. Modoc has an area of 2.750.-000 acres, and is known as high table lands. Along its eastern horders, lying between a range of moun tains, we find a chain of takes extending mearly across its entire width known as Upper, Middle, and Lower lakes. These lakes are from two to four miles wide. The sombern two are united by a narrow strait; the northern or upper one is acceral feet the highest. One peculiarity about these takes is that in 1851, when Peter Lassen, the old pioneer, passed through this country, these lakes were dry. About eighteen miles west from the northeast corner of the State is Goose lake, extending into Oregon, This lake is about 30 miles long from no south, and some ten miles wide. In the northwest corner is Rhett lake, lying mostly in Siskiyon county. A few miles to the cast is Clear lake, some tree by five miles in extent. The entire county is succession of hills, mountains and valleys, the Whener range in the eastern portion of the county being by far the most extensive. Between this range and the chain of likes is a heimital fertile valley watered by unmerous streams. Considerable timber, such as pine, cedar, jumper, brurel and lanurach, abunds in tho neighboring mountains. The Reno and Fort Bilwell stage road hads through the with y, and the principal farming in the county at present is along the road. This country has heen settled only sunroughteen years, yet there are four moderate-rized towns in the callry. At the south end is Eagleville, sunnted in a fine farming arctron, and containing nearly 400 people, miles further north is

# Colurville

This village is supported by a rioli and fertile agricultural country. The town has some 350 people, and is in a flourishing condition. Ten into site to the murth, on the same road, is Lake City, simuled on Mill creek, surrounded hyn long sin tch of musdonhand, and very productive. Stateen mites faither morth at the bend of the valley is Fort Bidnell, which has several hundred inhabituats. goods and merchandise for the valley are builted by team from Beno, Novada, a distance of 175 miles.

# Alturus

The county seat, is situated near the costern end of Hot Spring valley. This ralley takes in mante from a large hot spring which throws up the water five

or six feet high. The valley is about fifteen miles in length, by six in whith. To the nurth is a vast stretch of table-land, known as the Dovll's garden, out account of the surface bring literally strewn with scorla and volcanio matter. This valley is wantered by several branches of Pitt river (one of Thus valley is largest tributaries of the Sacramento), uniting at Alluras, pressuting a fine location for the town, which has a population of 500 people, It is 48ft miles porth from San Francisco. The country known as the lava beds, embraces a large partion of the northwestern corner of the county. It is a succession of guiches and crevices which range from a few feet to 100 [cet in width; some have subterranean passages which lend for miles under the recks. This singular country extends custward to Gnose lake, which has no armide lands, and it is fit

Big valley, sitnated in the sunthwest ourner of Modoc, is some 25 miles in length, and nearly as wale. It is watered by Pitt river and numerous The sail of this valley is as variable as the formation of the county itself. The valley has only been seitled some ten years. The village of Adm, which now has 400 people, is located on Ash creek near the eastern side of the valley. Goose Lake valley, lying on the eastern side of the lake, is a fertile and well-watered country, surrounded by fine hodies of timber, principally ceder and pin Surprise valley is divided from Goose lake and Hot Spring valley by the Warner range, the valley extembing north and sunth for nearly 100 miles, and being from six to twelve miles wille. There are s large number of small valleys throughout the county with pleuty of good Government, agricultural and timber land. Modoc county had a white population, in 1880, of 4,383; but

would number 5,000 at present. This is consulated one of the best slock raising counties on the coast,

# MONIC COUNTY

A long and narrow country, hes along the extreme castern ide of California, with its eastern line bordering on the State of Nevada for a thatance of 135 miles; Inyo borders it on the south, with Freeno, Tuulumne, and Alpine counties on the west. Monois triangular in sliape, nd has su area of 1,790,000 acres. The western portion lies among the tall peaks of the Sierras, some of the tallest of which are Mount Dana 13,627 feet; Mount syett, 13 217 fert; Castle Peak, 13,000 feet, and many others of lesser note, whose peaks are covered with perpetual snow. The eastern portion of the county, which is usually spoken of as a strange, mysterious country, is of a desert-like, volcanic character, abounding in saltpools, hot springs, geysers, sulphur springs, and extinct craters of volcanoes. A number of volcanic cones, all baving extinct craters, lie in the southern part; a great portion of this district s volcanic debris, consusting of porphyry, granite, limistone, and re-markably pure absidion. The fires of some of these ancient volcanoes may not be all extinct, for upon the islands in Mono lake Jets of hot vapor escape amid a number of boll-

ing hot springs. This lake is situated in nearly the center of the county, and at present, is about fifteen miles long by ten miles wide. The great bluffs and rocky ravines of the Sierras come almost to the restern shore of the lake, while on all sides depossalt and driftwood mark the plain, showing ery distinctly that the waters of this wonderful were once nearly 1,000 feet above their present evel, and apread over vast platns, which are now This, no doubt, was at one time a great inand sea; it receives the waters of a miniber of mall streams, but is without a perceptible untlet, Iwen river, which is quite a stream, in the south, Walker, in the north, are the principal rivers a the county. The former passes through the southern part of the county, and the latter through the northern part. Among the mountains in the north-western part of the county, there are a number of small elevated valleys which constitute the principal agricultural, or cultivated lands of Mono. The eastern part of the county is of an aikaline nableamic traces, of a mineral character. almost entirely unimproved.

The mineral resutrees consist principally of gold and silver, but copper, zinc, iron, jusper, and other minerals are known to exist. The development of a great number of silver velus has been carried on since 1867. The principal illutricia are Boille, the Penk, and Blind Springs, and milisand reduction works have been established in all. Gold and silver are found in equal quantities.

# Boolto.

The principal lown in the county, is strictly a mining tawn. Its allitude is over 9,000 tent-higher than any other town in the United States. The distance from San Francisco via, Reno and Carson, is 438 miles; the last 113 miles of the journey are by stage. A few years ago Bodle was quite a city, having a papulation of about 7,000; it may have but menderable mining is carried on around Boilie. The chmale is considered healthful; considerable snow fells in winter, and the summers are always cool and delightful.

Hrtitgeport,
The rounty scat, is situated in the nurthern part of the county, on the eastern fork of the Walker river. It is in an extensive valley, of line agricultural lands, known as Blg Mendaws. Bridgeport contains several hundred inhabitants, who depend mainly upon the mining interests for support, is 117 raties from Carson City, and is reached by

The third largest town, hes 70 miles southeast from Bridgeport; Mainmeth City, in the south-west, is a tewn of nearly the same size; the lesser towns are Coleville, Dexter, Degtown, Bishop's Creek, Monoville, Montgomery, Oasis, Portsville, and Roach-ville, The census of 1880 gave Mono a while population of 7.499. In addition to the mineral resources of Mono, there are large forests of timber. consisting of several species of pine, fir, tamarach, and other varieties of mountain timber. At pres ent there are some 15.000 acres of land made productive by irrigation. The lumber, agriculture, and grazing, on the whole, are increasing.

# MONTEREY COUNTY,

Lies between parallele 35.45 and 37 north, and is bounded on the north by Santa Cruz county and Montery buy, on the east by the counties of San Benito, Fresno and Tulare, on the south by San

tien, and a great purtlen lou rough for grazing. The population of the county is 20 931 and about 300 Chinese, not included. Muntercy is well supplied with railroads. The Southern Pacific enters It on the north and runs through the great Salmas valley from Pajaro to Soledad, a distance of 141 miles with a branch from Castroville (which is only ten miles south of Pajurn) to Monrerey, six-

teen miles.

Mose Lamling is located at the month of Sulmas river where it enters Municrey bay. There are sixtren points in the county where the farmer can ship produce, either by rail or by water. "I'wo and a half miles west from Moss Landing is

# Castraville,

Situated on the S. P. R. R. at the Monterey Junetion. It is regularly labl off and contains at present about 1,000 inhabitants. In this neighborhood is a large area of swamp land which has mostly been reclaimed, making the very liest of agricul-tural land; water is easily obtained at a maximum depth of 20 feet. Nino miles south brings us to the county seat of Monterey.

### Suthing City

Is located in the beart of Salmas valley on the Southern Pagific, 118 miles south from San Fran-cisco, twelve miles from tide mater at Moss Landing, and elgisteen miles from the town of tercy. It is a young and thriving olty, only fifteen years old, and at present contains 2,500 inhabitants. It has one of the finest business locations in the The town is well laid out with broad streets the business one having asphultum sidewalks fourteen fest wide. The town is lighted with one and is well supplied with water works; it has, altogetbor, a very city-like appearance.

ferent governors preshling over her destinies, vi-cente de Sala being in office when California passed from the Spanish to the Mexican Government for While under the latter Government 2t venra. there were nine Mexican governors. Pio Pice was in office from February, 1847, until Juty 7th, 1846, when Cummadure John D. Sloat hulstrid the American flag at Monterey, and by proclamation took formul phasession in the name of the United States Government, and was the first American milliary vernur of California. The old costom-house is still stamling on the heach where the same blentical llag-slaff that theatril California's first American fing is still standing in its sucket on the northwest curner of the old schole building, the morth end of which was bullt by Spain, the south by Mexico, and the intermediate by the American Government Many other places of interest are polnical out to the stranger in this qualit old hiwn, such as the Catholic church built in 1791, nearly a hundred years age, the altar and inside still being in a fine state of preservation. Here may be seen the old arch ives, the pure silverware of the church, the old paintings, of saints, brought from Spain a hundred years ago; Collon Hall, where the first constitution was framed, is now used as a school house. Here may be seen the most complete library south of San Francisco. It was established as early as 1831, and contains about 3 000 volumes of scientific and historical works. Some of these are from the beal anthors, and very expensive and rare works,

There are many places of interest yet to be seen here. A half mile west of town is Whaler's Point, where a company of Portuguese are still following the avocation of catching whales. Near this point at low tide, may be seen a portion of the wreck of the

vessel that carried Napoleon Bons. parte from off the island of Elba, Four miles worth may be seen the old Musion Carniel, the second oldest on the Cuest. On the hill, a half mile from town is the old fort, Genreal Halleck's headquarters; the old block-house, the uld theater, the first in California, now all in rnice,

But the greatest attraction in all these mudern times is the Hotel Del Monte and grounds, the most magnificent structure of the kindua lhocoast, situated about half a mile east from this quaint old town. This is decidedly the largest, bardsomest, and most reconfly-fur-nished sesside hotel in the country. Indeed no ocean house upon the Atlantic approaches it in its plan of exterior, while its interior finish, accommodations, and appointments are much superior to those of any like establishment in the United States. It is built in modern Gothic style, and is 385 feet in length and 115 in width, the center being five stories high, with a tower 80 feet: 100 more rooms are to be added early this scason. There are three flights of stuirs; one at the intersection of each of the end wings and a grand staircase leading from the lobby. The hotel is lighted through ont with gas; pure water is supplied from an artesian well. At a short ilistance from the hotel are the carriage houses and slables iarge enough to accommodate 60 horses.

The grounds contain one hundred and sixty acres of a heautifully-wooded, natural park of pine, onh, ecdur, aml express trees; there are thousands of young trees planted. Fine grass plats soings, proquet grounds, choice flawers and shrple may be seen on every hand, beautiful drives all through the park, and about hilf a mile east on a gradual descent ut the beach are the magnificent lathhouses. A more perfect and destrable bathing place would be hard to flad. Here was recently comploted the largest both lages to blish meet of the kind in the United States at a cost of \$250,600, with large hot, cold, plunge, salt, and fresh water baths, and ample accommodations in the bath-houses for 200 lathers. Hetween the hotel and the ocean is 7,000 series of land; a mure remainly, natural park can not be found in the State, fine drives along the law and accura, among the thickly wooded and rechy cliffs are being made. A drive to the light house and through the quaint shit town of Moster ery will unigly repay a Journey to this, one of California's idistorical sputs. Monterey losses of one of the most even climates in the world. The distance by rail from San Francisco is 125 miles; stramer, 85 miles; present population of the town.



is justly famous for her productive soil, fine healthful cilmute, which is pleasure the year round—the mild and adulations. It lies about 50 miles north west from San Francisco, and is inquiled on the north by lake county, east by Yelo and Setand countries, and west by Somma county, and is come 50 miles in legal), and about 26 in whith, and has an area of 450,000 acres. Like most counties in



# TEA-GARDEN AT SHANGHAL

Luia Obispo county, and on the west by the Pacific ocean. It has an area of 2,304,000 acres; the north-ern line is 90 miles south from San Francisco, There is a great diversity of soil, climate and productions, owing to the peculiar manner in which the county is divided by mountains, hills and val-It is separated, naturally, into four sections. reys. It is separated, nationally, this four sections, viz: The Sants Lucia range of mountains, running parallel with the ocean, in the western portion, fullowing the roast fine. The Gibilan range in the castern portion extending from Monterey bay on the north into San Luis Obispo county on the south; these mountains are in most places very rough and strep, especially in the central and wrstern portion of the range; so much so that some parts of the county have not been explored; they attain to a height of 5,000 feet. Between these two ranges lies the great Salinus valley, which upons upon Monterey bay on the north, from which it extends in a southeastern direction for 75 mites, and from stx to miles witte, and contains 640,000 acres. Through this valley runs the Salinas river front a suntheastern to a northwestern illrection, and compiles into the bay of Munterey, the principal Iritularies to this stream are Arroya Seco, San Antonio and Nucliniento from the west, and the San Larenzo and Estrayo from the east,

The lands in this valley may be divided into three classes: Rich huttun, good for the grawth of anything; table hutta, good for wheat and barley; these shand dry weather or a short supply at rain butter than any other he the valley; the up-lands, which he close along the base of the mountains, in the liver part of the canyons and among the lower hills, are good for general farming, such raising and fruit culture. Fully one third of the country is mountain waste and not susceptible of cultiva-

Is situated in a cove at the southern extremity of Mnoicrey bay and thoroughly protected from the rough winds of the Pacific by the range of monutains which extend stont three miles to the morthward and terminate at Point Pines. The harbor is one of the best on the coust; the largest vessels can always enter the bay as there is no line to cross. Monterey is closely connected with the early history of Culifornia, and a short sketch may not be out of "The first glimpse we have of this phase here. The arat knapse as an accountry is from Juan Roderignez Cabrillo, on his first voyage along up the western shores of this confinent in 1512, only 50 years after Cedimalus discovered America. The mountains, Cabrillo describes in his journal, along the cossi to the southward, were hare of thinker until he reached the 37th parallel of latitude, when he gut sight of the worthernwheil range of mountains and made note of the fact. Just this glimpsons given us in the journal of the first explorer, and we see no more of It for 36 years. The next explicier, Sir Francis Drake, sailed along the same track, then there is another silence of 24 years, when Viscoyim comes exploring more caridally and scarcing for harlors, and it is he who finds Monterey buy, arriving here May 16th, 1602, and mined this bay in honor of Onspor the Zunign, Count the Monterey, who was at that time vicerny of Mexico, and who had filled out the expedition. Then there comes another silence of 50 years, when Charles 111, King of Spain. seculiar in the Spanish throne from 1750 to 1780, and Cooper do Partida was California's that governor, being appointed in 1767, and roundhold in office until 1771. California use them wild meet-plored country. From 1767 north 1822 California was noder Spanish government, and had nine dif-

California, it is bregular in shape, being lougest north and south, and the most southerly part reaches within almut 27 miles of San Francisco. with which it is connected both by water and rud. The California Pacific and Northern Railways enter the county on the extreme southern Valle ju, thence over the main line of the C. P. R. R. to Sau Francisco, Phy. Oakland. This road runs through the central portion of the county to the most western conter, terminating at Calistoga, a distance of 73 miles, 41 miles of which is within the county. The Napa river, an estuary from Suisin bay, is invigable for steamers to Napa City, the county seat, which is 41 miles from Son Francisco. The topography of this county is a succession of low mountain ranges and valleys, with a general northeastern and southwestern directum. principal valley is known as Napa valley, extending through the entire length of the county (begianlag at Snisnn buy on the southern line), in a northwestern direction up above Calistoga. fertile ralley is some 50 miles in length, and from two to eight miles in width; it embraces about 56,000 acres, which is nearly all of the very choicest graps and fruit land in the world. Orie mally, this valley was dotted with large spreading oaks, having the appearance of a grand park. Large numbers of these trees are allowed to remain, together with thousands of eucalyptus, walnut, lucust, and other shade and ornamental trees planted, giving the country a most beautiful appearance. In early times this cutire velley was owned by the

lie in Napa county. A large portion of this is not land along the bay, and is used for durrying. Thus it will be seen that less than one quarter of this county is level land. The remainder is mountainone, ranging in height from the lowest foot-hill to Mount St. Helenn, 4,343 feet.

Nupa county is justly fautous for the numerous minural springs that are located within her borders, At the southern end of the county, about five miles from Napa City, are situated the celebrated Napa Sodn springs, the waters of which have become financis for their curntive powers, From the hilden treasury of nature's chemistry, in her subterranean laboratories, a percanial flow of about 5,000 gallons daily is developed-mingling iron, soda, magnesia, time, and muriate of soda with free enrionic neid gas, in such happy combination as to import pleasure, health, and physical improvement as the result of their use. From these springs is ponred forth the article so ivell known in the commercial world as "Naps Sodn," The water is buttled and sold, just as it flows from nature's laboratory, with all her sparking freshness still upon it. The Hot Sulphur springs at Celistoga are also a great curiosity. There are 22 beiling springs, and, chemically speaking, no two are the same. In Popo valley are the celebrated Ælna hot springs, where hundreds of health and pleasure seekers his themselves annually. Ample and good accommodations are provided for guests here, and the ride over Howell mountain, to and from the surings is as romantic as could well be

St. Helena.

An incorporated town of 1,400 people, is situated on the line of the Napa Valley Radroad, eighbeen utiles above Napa City, and within three hours' ride from San Fran-The lowe is supplied with water-works, which case. The fown is supplied with water-works, which furried an abundant supply of gure mountain water, both for bousehold and irrigating purposes. The beautiful valley is one continuous vineyard, both up and down, as far as the eye can reach. With the hold, rugged mountains on either side, slightly with timber of various kinds, make this one of the lovellest sides on the case. The however contains a the coast. The lown contains many stegant residences and fine churches. The White Sulphur Springs, a beautiful summer resort, two miles south; Crysta: Springs, three miles north; Etna Springs, on the cast all bave an envialite regulation for health and pleasure seekers. Improved hand in the valley is regularly sought for, at figures that night seem high to those ma-nequalitied with the surroundings. Northwest, through the valley, a distance of also miles, as the terminus a the railroad,

Cullstogu,
A place of 850 inhabitants. This is also a summer resurt, of conshirtable non-

Mulway between St. Helena and Napa, on the time of the rullroad, is the village of Youniville, with 1000 li-hibitinits. Dakville is four and one-half infles north, on the same line of railroad. One mile further up th valley, through a fine, improved country, brings us to tutherford, which is increty a radroad station, in one of the finest locations we have seen in the State.

# NEVADA COUNTY

is bounded on the porth by Sierra, on the east by the State of Nevada, on the south by Placer, and on the

ship; still another, at Round Mountain, a short ille tame from Nevada City. Prospects are constantly making new theoveries in various parts of the county. Nevada county has 37 quarte mills in operation, with an agent gole of over full shamps.

The bimber interest of the county is an extensive one, the Huther consisting of plue, it, squire and cellar, The estimate of standing saw thober yet in the county in a bright \$50,000,000 ferd,

The facilities of Nevada county, both for travel and The mentines of Nevada county, both for travel and shipping, are excellent. The amountment the Central Pacific thus along the southern line of the entire county, forming a function with the Nevada county, Narrow gauge Buitroal at Colfax, 103 miles methesed from San Francisco. The narrow-gauge road, 22 inflex in height, was built by private capitatists from Nevada

entitity elitzens The largest city in the country is Grass Valley,
With a population of £500, siluand on the N.C. N. G.

With a population of \$,500, situated on the N. C. N. O. R. R., statemenths out it of deex, and 20s in the morth of San Francisco. It is located in a wally 2,560 feet above the sea level, in one of the hest quartz anting districts of the State. The majority of the indice in districts of the State. The majority of the indice in the vicinity are paying ones: white substantial business blacks and Due reshiences between the large measure of the remainistly's prosperty.

Newther (11).

The county seal and second largest city in the county, has a population of 5,500. It is also the termining of the N. O. N. G. R. R. and its situated on both sides of Deer crosk, which these in a deep canyon. It is spanned by a heautiful series fridge. Nevata City is a rainly one of the bandsonest and twelvels theward California, do not run with any regularity. The ultime yield regular ruled-deads, and the morey is laid out in city improvements



VIEW OF PORT BLAKELY.

the entire conatry being, thea, covered with wild oats, and other autitious natural grasses. We find thirteen Spanish hand-grant titles covering nearly the whole of the arable lands in the county The soil of Napa valtey is usually a dark gravelly loam, very fertile, and, during the ratay season, te not muddy like the clay and adobe soils in other portions of California. The lands in this valley are all cut up into small tracts, ranging in size from five, ten, twenly, forly, one hundred, and two bundred acres, and occasionally, five hundred acres. Larger tracts extend up on entier side of the foot-bills and low arountaju ranges. These hills are also numbered with oak, madrone, piac, aldar, and various kinds of mountain timber.

Berryessa valley, the second largest, is located in the eastern portion of the county, and is some eight miles long and from one to three miles in width, embracing about 6,700 acres. The soll and general charach-ristics of this valley are similar to those of Napa. Between these two valleys, to the northwest, lies Pope valley, which is some eight mites long, and from one-half to one talls in width, embracing 5,000 acres. Chiles valley, a narrow, productive valley, some ten builes in length, by one batt of a rille in width, in all embraces about 3,200 acres. Conn and Woother valleys, also in this vicinity, each embrace about 2,000 acres. Capella, a smaller one, embraces from 600 to 760 acres. Butter of the contracts of the contract of the contracts of the contract of the c slies these, the southern part of the county extends into what is known as Suscel valley, hordering on Can Pablo bay. About 16,000 acres of this valley

Spanish pioneers, who raised thousands of callle imagined. Napa coupty has numerous fresh water springs, and it is considered one of the best watered counties in the State. Beautiful living streams are to be seen all over the county. Among the principal ones are Napa river, running the eatire length of the county, and unmerous creeks, viz.: Conn, Suco, Napa, Suscol, Carnerus, Rector, Pulah, Etionra, Pope, Dry creeh, etc.

Militerata of various kinds abound in Napa county.

The only mining corried on to any great extent is for quicksliver. There are many mines of this character that are now lying dorumni, on arcount of the extreme low prices of the article. Numerous other minerals, now prices at the order. Annicons other influences, and, am-monta, coal, limestone, gypsini, tufu, and scoria are found. Some of the geological formathus of Napa ara-among the wonders of the worth; viz. the pertined forest near, Calising, the lava beds, on Mount St. He-

the great product of this county, and almost the only facerasing one, is who and braudy; the wine crop last year accounted to 2,050,000 gallons. This is one of the wealthiest counties in the State, considering the mucher of 18 tababitants. The census of 1800 gave Nagar white population of 12,300, and a floating Chinese population of from 1,500 to 2,000, hestdes several hundred

Niapo City Is beautifully situated on the Napa river, at the head of navigation; it is also on the S. F. & N. P. H. R. 41 miles from San Francisco. In the immediate vicinity of the sity, the country is lovel, the sull is rish, thus afforthy excellent facilities for this gardens. The city is re-larly last out, with broad streets, which are handsomely shaded. The business portion of the lown is built of

west by Yuba. Its area is 650,240 acres, and ites high word of those the area is especially as the country line in the first in the first f visited by frust or snow. This county is one of the best watered in the State. It has several beautiful takes, the must nuled of which is Donner take, situated on the southeastern time of the county. In the northern part of the county are Lake Independence and Webber lake, at the latter, there is a fine summer resort, and a line of stage a mining from Truckee, on the O. P. R. R., up through some of the finest mondain sentery in America. There are a miniber of other beautiful lakes up in this region.

Mining exceeds all other industries in the county; here are 381 surveyed claims located on the new and stegad county map recently published by Mr. J. Chartwell. The gravel induse were first discovered in 1819. The ridge between the middle and south Yuha is distinguished for its vast and almost continuous lines of gravel hills, extending from the amount in the londthe southeastern time of the county. In the north

or gravel hills, extending from the annual to the look hills. The deposit of gravel is from 100 to 390 for it depth, and millions of tolding have been expected in getting the water in pipes and diletes for inites to de volop the claims. Among some of the most extens voted incommunity and the fillowing Millon, North of the companies are the fallowing: Millon, North Bloom hall, this Tent, Omego and Birdsaye creak These, and a number of other private chains, have yielded away up in the millions. The berden inter-ment North Bloomfield, is the leading claim in the near North Bloomlicht, is the leading claim in the country litror the drifting process is employed. Near they is the Watt, where gond prospects are heliog constantly developed. Another important gravel-infining district, with indications of being as rich as any in the country, is being developed in Washington Town-

It is also chainsal that it is the trealibrest place in Califorming Two stage three brave (dath) for Downhyille, North San Juan, Forest City, Graoth vitte, North Bioma-field, Lake City, Comptonville, Maryaville, Datch Fiat, and all parts of northeoderu Cattornia. In the ca-treine castern part of Nevada is the third largest town In the county,

In the county, Trackee,
Situated on the C. P. R. K., on the east side of the summit of the Sterras. It has a population of about 1,200. The town is principally supported by the humans inniher interest, and they 200 inthes northeast from San Francisco: It is the place event ourists leave the rather old for Lake Taboe. Eight miles east, along the river, brlags an to

Hoen

The largest shipping point, for the size, in the State, Pully in 000,000 feet of hundre are shipped anomally, and also 10,000 time of fee by the Bora fee Company. Here, is the endebrand loca Beer Browery. In the the northwestern part of the county is the fourth town,

North San Juan.

Which has a population of short 800. It is thirteen miles northwest from Nevada City, in the center of the gravel-mining district. The other towns in the county are North Bloomifeld (which is liften infle north of Nevada City, situated in the gravel-infling distribut, Chorden, French Carral, and Columba till, all little infling camps, located north of Nevada City. The consist of 1850 gave Nevada sumity a population of 20,827, which upuld reach about 21,000 at this date.

Satter, on the small by Rt Dorada county, and on the cast by the State of Nevada. A pail of its eastern humidary is the framed locke Tahue. It was organized by an Act of the Legislature, approved April 29, 1831. Before that thir Auburn, which is the county seat, was the seat of justice of the original Sufter rounty, which then jucholed most of what is new Phot remady. In shape this county is nearly a parallelogram, being erer too miles to length, from morthess to a south, western direction, while its width, just above Auburn horneon Bear and Amirlean rivers, is very narraty, only about eight unites, and by its toping might had real tree the whithe of its herritory fires towards the setting sun, ex-tending from an allitude on the plains, in the restern matten of the county, of none 40 feet to over 7,000 feet at its eastern boundary line, embracing nearly every variety of climate known in the Sinte. Its area ts 915.000 prres

The mineral resources are extensive and very rich The gold unlines of this section, both placer and quartz, have yielded up in the authorise, the former, from which the coming derives its name, have been worked from the early days of 40. The two divides are distimetry hydraulic sections, and the works are, in many instances, very extrusive, notalty so around butch Flat, Gold Run, hora Itali, Forest Hill, Bath and Michigan Binff. Millious of finllars bure been expended in gerting the waler, to pipesand ditches, from the manniame, and the number of males of ditches is several thousand.

Drift mining is carried on to some extent, two of the most notable places being at Forest Hill divide, one at Damasens, and the other at Sunny South. The tunnel at the first-mentioned place is in the hill over a infle. There are also numerous quartz bridges being worked and prospectors are continoully making new discover-tes. Most of the quartz intolog is being carried on in the foot hill section near the towns of Anbnin, Ophic New Castle and Penryn
The quarrying and dressing of granite is an impor-tant tiem of the wrallh of

Placer county, there bring no liner granite in the known world than the quarries of Pemyn and Rocklin. There are several species of practic, the rock at Penryu being nough darker than the quarries at Rockill, but at the later place it is much raster worked. Large quantities of red. Large quantities of excellent building material are acqually shipped all over the coast, and may be seen in the public build-ings and works of California.

From the hest information we could get while among th people of Placer conuly, we estimate the standing saw lamber, yell u the county, to be 471,000,000 leet.

The farming section proper consists of the average plain land, and embraces the west end of the county. It to Lot so rich at a soil as of most the valley lands as it is of a granite formallen, on which crops of wheat, oats, barley and hay are raised, varying in quantity and quality with the amount of norsture throng the senson. The foot-hill, or fruit in the county, and extend over about one half of his territory, and circling around to the north of Lincoln and Sherldau up to Bear river; and from

uan iip to bear river; min rom Bockin - sootheast lookards Fidson, we have the bigioning of the foot-bill fruit | about 300,000 acres of froil and grain lami, susceptible section. This section is composed of rolling hills, lraversed by ravines, and, up to within two unless of Aulinia, to of a granite formation. This point of line may just the most prosperiors, as it is filling up by tiers, who are torning their alternion to the ratating

Planer county has good shipping facilities, as il la verset by railroads. The Central Paritie enlors the inty on the south at Roseville Junction, which is by eighteen miles north-east from Sacramento, the id laking a northeastern direction to Culfax, a dis-acco of 35 miles, which is the junction of this road and a Newada Conoty Narrow-guage road; the Central re takes an eastern direction across the Sierra Monntns, following un mar thu line between Placer and il Nevada coonlies in Truckee, a distauch of 66 miles rither, where it crosses on northeast through Nevada inly A. Roseville Jonellon in the Oregon division the Central Pacific, ringing on north through the

ern portion of the county, interest by unnecrous Place? is exceedingly well watered by innecessing the largest bring the American river, which, in its several branches, affords some of the grandest curry in the State. The other streams are lear river, which forms the line briveen this and Newnda county, and on the east is the Truckee, which is the outlet of fate "These." Lake Taboe

Lake Taboe.

Astlearn,
The county seat, one of the oldred towns in Northern California, has a population of 1,500. The town is to asted nearly one infle west from Anhorn station, on the C. C. R. R., 157 in the sortheast from San Franchen. The elevation here is 1,375 feet showed to use freed. This great reportion of the lamb in this whether is gold-tharing inflatest, but where water can be had, froit collure by very profitshile, as the location is below the snaw hell and away from the fog hell. It is be added in a small valley, and, like mind California towns, is not laid out with any regulatity, dail it has negative the other the same with any regularity, but it has pleasant villas, ulca-shady monks, and the springs of rrystal water. Free until adown towards the valley, we come to

Which has about 200 inhabitants, who are mostly engaged in the fruit business. The second largest town

## Dutch Flat.

Lucated 31 miles east of Antiorn. This town is about muchalf wife from the rallroad, down to a conyun This has been one of the richest gold-producing sections of the State, and at present has a population of about 900, mostly engaged in mining and lumbering. There is an abundance of water here which has been brought in diches and pipes at great exposes. A duity singe is run from this place to Nevmin City, a distance

# Colfiex.

The third largest town in the county, has a population of about 600. It is lucated at the jurnition of the C. F. and N. C. N. G. railrouds, accenteen unless northeast of Adaily mail runs from here to lows Hill. Between Colfax and Auburu is

Chipper Gup,
Where the fumous Officer Gap from mine is localed;
this tran is known to be the best in the market. At

Lincoln,
On the Oregon division of the C. P. R. R., 29 infles
north from Sacraneuro, are located the extensive potteries of Gladding, Melteau & Co. At this place is also a coal mine, which yields very fair coal for steam-engines and other uses. Seven inlies further north, on the same rand, is the village of Sherblan, localed in a farm

# Roses Ille,

The junction of the rollroad, eightern miles northeast of Surramento, has a population of 350.

There is a number of other towns in the county, such

Alta, Btue Canyon, Emigrant Gup, Gold tinu, Forest Hill, Pino, and a host of other little unume camps. The census of 1890 gave Plant county a population of 14,226, which perhaps would reach 14,500 at present. The county Assessor estimates that there are to the northern part, is one of the most thriving places

rent places, both by placer and hydronile methods. Phinnas also has a large amount of excellent saw that ker, which will become valuable in time. Although there is a small area of level valley land, practicable for farming, yet this industry is quite pussperous. In addition to grain and regetables, this is make an impact faul stock-raising county, and an excellent locality for fruit, such as apples, parts, plums, and practices. As yet there are no railrands to Pluma county, but all the gond wagon roats, is Orovillo, fintle rounly, on

rest, and to lieno, Nev., on the cast. Nearly all of the north-easiers, perilos of California can communical more readily with Kevada than with the restora parof California,on account of the general trend of the momilialis.

The county seat, is allusted to American valley, one of the most tritle little valleys in the State. The lover is pleasant and uttractive, us it is situated in the mint of the Sharas, which are here covered with dense forests of thinker. Quincy has a population of 1000, who de found equally apon the infuing and agricultural infer sis in this district. It is 05 miles northeast from Groville, the tirnthus of the railroad, and is easily reached from Rrue, by means of the Quincy & Items Slage Line, which passes through the towns of Long Vulley, Jemison, Eureka, Johnstown, Beckworth, and Summil

The principal lown, is one of the most prosperous agricultural sections of the county, and routains 200 in habitants. Alcador vulley, with less than 100 inhobits auts, tax s fine location, see ral miles from Quincy, in the Oroville road. Summil is a small town, in the eastern part of the county; if lies at an alritode of 7.000 feel.

# Green ville.

In the httls; extensive querations are carried on in this | river is the village of Washington, with several hunderver is the village of Woodington, with several hundred mater. Sucraments is a great railroad order on Sood Brownest directly with San Francisco; our Sood Brownest directly with San Francisco; our Sood Brownest directly with San Francisco; our Sond, it is great San Junquin valley, and thence were hard, etc. Less Angeles; the Central Paciety gas affrectly across the cambra of; two lines run north through the Sacrama nto valley, one on each sode of the river the Sacrama nto valley, one on each sode of the river the Sacrama nto valley, one on each sode of the river of Dorsale. This, besides the markgathn of the river for shearers all the year, buth north and south, make the shtpplug Incitities seemed to make the Santa. The 3. 9. 8. R. Ca. has added greatly to the The the P. R. R. Dr. has which greatly to the general improvements of the city. Its lumiense work shops here coupley from 1,800 to 1,500 men, and they have recently constructed rolling mills, where old has railing is converted into bars, kalts, etc.—The may passinger depot, the second finest lu the State, is an qu-

nament to Sacramento.

The city has had a marked growth during the past year, and its importance, as a commercial center, in more thoroughly calabilisted than ever; it is the disributing point for supplies for a great portion Producting profits the constant employment of so many men by the rathroad emeganics and the different manufactories and mills for which Sacramento is so justly famous, centers large capital here. The sarings and other banks have a surplus capital, which is learned throughout the State. Here is also one at the fixest capital buildings in the United States. From its gilled ome may be had one of the finest views of this, one dome may be had meret the fluckly rews of his, one of the most ferthe valleys in the world. The snow-risk Serras, in the rast; the dark outline of the Coast Ronge, with Mount Dubb standing and loadly, in the center, to to the west; the numerous railroad large rounting out in every direction; the white sails of comconting out to every direction; the withtessals of com-erce going up and down the ricer, ricose banks are dotted with numerous towns and rillages, make this one of the braddints cillre in the State. The lowest temperature reached, is 19 degs, and the highest, for a few hours in the day only, is

tol. The nights are always cool. All the fruits of the temperate and semilimpical zones flourish, white the gartens are in a percecutal bloom The serood largest town to the

# Folsom.

Directly east on the S. V. & P. tt. E., a distance of eighteen riths, and they on the tracks of the American ricer, which affords one of the fines which adireds one of the finest water powers in the country, if toproved. The granule quarties near Folson possess an unlimited supply at the finest building stone in the norld. This is in the edge of the gold taking district. Some of the indues in the vicinity are still long worked. The force has a population of I 500, and the chief support of the lown magniculture stock raising. The br stock raising. The bran State prison is located here,

# familia.

or third town, is situated in the soften part of the county, on the C. P. R. R. at the function of Jackson and Ancador railread, 32 miles south of Sacramento, in a flue, level, agricultoral county. The present population is 500. Seren miles north, on the mane railroul.

# Elk Grove.

A town of about 350 people, located in as fine an agriorithral and fruit section as there is in the Stale. Been are also extensive vineyards of raisin and wine ages. Beliveen the torus and Sacramento City, on the ratifical, are Florin and Brighton, sorrounded by an excellent agricultural country

\*\*Metching Rar

ts an old initing fown, southeast of Sacramento, and
about 30 miles distant. The hills around the place
hear ectionice that an troumne amount of geld has been
taken from their gravelty heris. An excellent quality of lter's clay is found here. Dairying and farming are He main supports

# Watuict Grove,

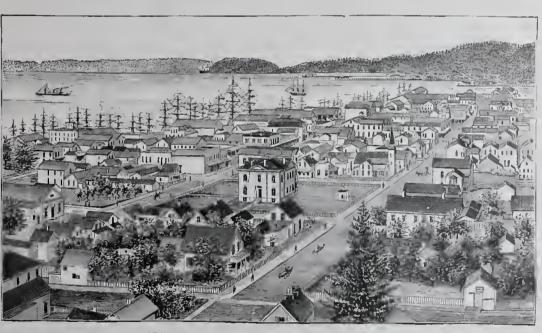
ls aithaird ou the rest bank of the Sacramente, some Bifecumiles south of the city in the midst of a fin finit grouing section—Passing on south to the south-ern end of the Andres (Mand Is the Village of 1st ion. No richer well can be found than this Island gos-

The other leaves to the county are Cosmones, slinsted on the river of the same name, eighteen unles from the city; Franklin, however miles out on the Stockion road;

Bixville, Richbart Routice and Walsh.
The pupulation of Sacramento county, in 1880, was
31.314, which has largely increased within the best to 0 33.31. Will'H uns targety increased within the less than 30.00. and a half years, it now amounts in an its a than 30.00. At the delited the Sectimente ricer, in this county, are suffer, Grand, "Eher, Andrius, Brannon, Shennon, Philichell and Randoll Islands all of Groud area-which are being rectained as tast as possible.

# SAN BIGNITO COUNTY.

By an act of Tegislation, In 1874 this county was Raulzed, It formerly boln—the mutthesators portion of Montercy county. The restormand soultweeth rubound-ary Thin running along the summit of the Cabibba funite of anomalal as before a three and Montarey, rounded product with the ocean on the east it is bound Frome and Merced countles, the fine running the smanct of the Mr Oldde 18080. Brucch live ranges of incembed as is the ralley portion or arable part of the county, called Sas Bourto and San Juan



ASTORIA OREGON ENTRANCE TO COLUMBIA RIVER

of cullivation, a great portion of which is yet in a unt-

# PLUMAS COUNTY

Lies up among the mountains, in the north-eastern part of the State. Mountain chains define its limits on seceral sides. Its boomling countles are, on the north Shash and Lassen; caat, Lassen; could slow north, Shash and Lassen; coath, Shorta and Butte; west, Butte and Tohama. Phinnish has attared if 1.709,601 acres, and its general characteristics are similar to 1000 of the adjoining counties. The scenery is will and picturesque; show covers the summits of the mountains, and their slopes are cluffied in magnificent forcests in the first summit and picturesque; show covers the summits of the forcels of pine, fir, and onk limber. This county has many transitini valleys; muong the primipal ones are Big Meadows, Mountain Meadows, Imilan, Geneace, American, Beckworth, and Meadow valleys. The first camed be some Officer sailes long by four wide, and is ino largest. It lies adjacent to Mauntain Meadows, another, of nearly the same alzo, and several other val-leys, the whole constitutions are whole constituting quite an olevated plateur leys, the whoir constituting quite an elevated plateur, 4,500 feet allows escaleded. Indian valley, an important and prospectors district, is reven miles in length, and two infles whic. American valley is nearly the same siza, and both connect with smatter calleys. In the manufathens portion of the county are high rhiges, abrupt closures, and deep canyons, through which lumble heaulful streams. Plannas is one of the heat watered counties of the State, with tiving streams run than through all of the values. Suggest the value of the state was the property of the state of the state with the property of the state of the state with the property of the state of the state with the property of the state of the state with the property of the state of the state with the property of the state of the state with the property of the state is at red counties of the State, with living streams run-ning through all of the valleys. Soveral branches of the Faultor river rise in this county. Itash, Indian, Spanish, and Cherry creeks are all tributaries of the north fork of this river, dowing through line coltivated valleys and important mining districts in their courses. The north-costern portion of California has the threat mountain climate in the world, lavigenting, healthful, and perfectly delightful; in whier, understely cold, though there is an abundance of some finite munit-ains, and plenty of rain in the valleys. A good share of the wealth of this county is claimed to be in its union, a great many gold claims having been taken up-

In the county; It has 830 hthabitants. There are a name of smaller towns, or mining camps, such as Comportown, Careka Mills, Hai Springs, Indian Bur, Longville, Moharek, Prativillo, Spanish Ranch, Soda Bay, Seneca, Union, and Wash. Plumas county, in 1880, had a white papulation of 3,180. It has large amounts of fine dovernment agricultural and timber land, susceptible of settlement, with the capability of tripling its present population.

# SACHAMENTO COUNTY

is situated in the geograp! ical confer of the State; the north it is bounded by Suffer and Placer; east by El Domilo and Amador; south by San Joaquin; west by Solano and Yulo; the great Sarramento river forming Solano and volo; the great son ramento river rooming, the line. The conorty is nearly analyzagain in shape, with an area of 229,000 acros, beside in line watered on the entire wastern side by the largest river in the State. Soveral of its principal tethnucles downrountin Sterras to the next, through its territory, such as the American, and Cosminus. Its extreme southern cut is invatered by the San Joaquin ricer. Several creeks, among obid are Antilope, Willows, Greiglaun, and Dry, also which are Antelope, Willows, Georgiskas, and Dry, also ron in the county. Near the junction of the Sucramento and San Joaquin reters there are several brace and ferfille bilands; Sherman, Grand, Sisten, and Andras are among the largest. The soil of these Islands is a tric vegetable and sedimentary deposts, and they are subject to immutation in times of high reater. The greater portion of the county is a rich valley, producing large crops of grain, buy, fruit, vegetables, large and grapos. The valley portion in under a high statem cultivation. The baranteries of the county on the cast extend up into the Sierms, after the relax considerable was and other timber. Atong the banks of the streams, there in considerable willow, sycamore, and other thus her, valued for land only. her, valuad for land unity.

Siccennesseth City.

The capital of the State, is attached on the east bank of

The Sar taboulo, near the month of the American river. This is the the full duringest only in California, and it has a population of 22,123, turneductly across the

values which are a continuation of the Santa Clara valley, the morthern boundary line running through the valley between this and Santa Clara and the Santa Cruz mountains. Ha area is 858,550 acres, and it be

Cruz mountains. Its area is nos, not area, and it is about it in the bing, and from 12 to 64 in the wide, and contains a population of 6,600.

The county is watered by the San Bento and Trisfinos rivers and irithitariles. These rivers run in a mutawest radirection across the entire county. It is not as well watered as some after countries of the state. The limber is principally live, black and white oak and same pine, in the monatalnous portions, sufficient and same pine, in the mountainous portions, sufficient for their had no saw timber.

for firel, but no saw limber.
There is, first, should 25,000 acres of black adole and sandy loans in the vall y along the streams, which will produce an abundance of vigitation. Second, about 31,000 acres of first-class grain band, that is known as San Benth valley, in reality, the extreme smillern par-tion of Santa Clara valley. The soft is a black mlobe and loam, with a blue randy subsoft, and bolds motstand road, when the principally on this hand that the large amount of wheat, shipped minimally from this county, is raised. Third, about 46,000 acres of what is brined is raised. Third, about 44,000 acres of what is fermed second-riass grain hand, most of which is situated in the not-initis, and is composed about equally of adobe and saidy soil; on this land most of the lany crops are raised. There are numerous small valleys running to every direction in the upper find-initis, capable of producing lany, amounting to about 100 00st acres. There is very little mountain Isind bill what is suitable for

Our barlyer abounds in the mountains; on the rast

forming the line; on the south by San Diago, and on the west by Los Angeles and Kern. It routains an area of 15,022,000 acres of surface, larger in extent than Several of the New England States, Ingether. Fully 13,770,000 acres of this wast country is a barren discretant municipals waste, or interest tames. According to the best information we could get, there are about 200,000 acres fit formation we could get, there are about 200,000 acres in our agreement and purposes and trul vulture. These tands ore marry all in the southwestern purhun of the county, which is ruited San Barnarillio valley. The Santhern Pacific Bailroad passes through from Las Angeles, southeast to Yunan, which lies in the Colorado river, and la the saulth-rask corner of California. The Colorado is margiable for several lumined in the north from Yunna. The Santa Anariver, in the south overlern part of the county, is the next largest stream. The mountstine successful the valley are illied with maginomitatina surrainading the valley are illied with mag-nificent farcasa at pline, cealer, and other thinber. In resources this cannity can blast as great variety as it can it climate not physical features. The minimous and rich infining diseaseeries which have been made during the past two years, are already attenting considerable attention abroad. No has than eighteen different dis-tricts are known, some of which have quark mills in op-cation. Numerous placer mines have been worked to inauly years in different portions of this vast territory, the principal once of which are known as the Little-creek placers, Brar valley mines, Lune valley mines, Black Hawk mines, Dry lake district, New York, Alvord, Ivanpah, Mohave, Oro Grande, Grangevine, Calico mountain, Ord, Bladen, Pluccarie, San Autonio, Silver-ado. All of these districts are known to have good ado. All of these districts are known to have good paying mines, but they are mostly owned by the discov-erers, who are usually puor men, and it is not the pioside of the county there are 10 to 12 locations which have been prospected with good indications. Chrome ore is also abundant in the vicinity.

Artisian well water is obtained through the yalleys nerr or founder of a business who shrives the greatest

ruoning north and south, east and west, and intersert. ing each other nt right angles. The blocks, each ron taming eight arres, are subdivided into lots, of one arr-each. It is thickly studded with trees, as its indeed in whole valley, which, with the bright green of the gar them and surraunding fields, give it more the appearant

then and mirromating being give it more the appears of a New Bargland without claim a Califoroia lows.

One of the great advantages rejoyed by San Bernardine is 16 abundance of water. Almost surrounded by mountains, numerous streams pour into it from all the recitons, with ariestan vater can be obtained almost anywhere in the valley, by sluking from 39 to 300 feet. There are now over 500 flawing wells in the valley, af-fording pure water for the household, as well as not irrigation. Owing to this abundance of water, the ferigation. Owing to this annuments of water, inc. feringers have has dread af a dry season than is experienred to other parts of the south, while a failure of crops is a thing wholly unknown. We now pass on, to

Riverside,

A distance of twelve inlies from San Bernardino, which, although quilte youthful, is a thriving self learnet. It is shoost entirely selfled by Eastern people, mostly of some means, many of whom have located here far their some means, many or wann asserted this unld ritudin, health; some for the phosenres of this unld ritudin, and some for the purpose of raising semi-trapical (rull, to which the entire sertion is davoted. The sufflement of filterraid he a colory, and is about fwelve in her in length, by about four wide. The prophe depend whelly on irrigation. The colory has the water right of the on trigation. The colony and the trigated Santa Ana river, which heals up in the mountains nertheast from San Bernardino, and also the water farnished by some 450 artesian wells, from San Bernardino, valley is allowed to flow on in Riverside. taken out of its course, and distributed, through hund-reds of small canals and distributes, for the purpose of ir-lgating the lamnense orange orchards in the place.

bills of the Coast Hange. These hills and mountains are revered with considerable thinker. The third section lies between these foot fills and the mean. The surface of this roundry is known as max lends. The most important topographical feature of the county is the bay of San Durgo, one of the few ha urat hurburs of this cosst. It be a fine sheef of water, twenty miltes long by three which, is almost anchurage locked, and has a safe cutrainer and a good anchurage for the largest seagoing vessels. The Southern Parelle Transcontinental Hailroad passes through san tingo county, from its nurlewest brider to the southwest corner, for a distance of 165 miles. The California Supliceration reveally been foolit, from Colling, or the S. P., south to San Diego City, a distance of 120 miles. The Pacific Causi steamers make regular trips between The Parellic Gasal distances make regular letps between Sun Francisco und San Diega, every five days. The Colorado river, along the eastern bond rainf the rounty, is novlgable for steamers. These conducted give San Diego county the hest of shipping facilities, high ky rall and water. San Diego is the oldest selfled rounty in the State. The buy was first visited by white men under Pahrillo, in 1542, only 60 years after the discovered American ery of America.

In the fertite portion of the county, or in the two swittens with in the desert region, are more than 30 valleys, from two to fifteen with a long, and embracing fram a few hamited to 20,000 acres; sevical of these valleys are very freille, with a deck alluvial soil, while the rolling limbs are of a redsh untire, unto risid with a chy subsail. These lands, up to a few years with a risy subsuit. These lands, up to a few years ago, were combifered valueless, but it has been proved that by proper cultivation they are quite productive larigation is, al present, in advance of ratironiling or any other tuberts. The great need of San Diego ecently is water. There is considerable available water by be



SAN DIEGO, CALIFORNIA-Fifth Street, Looking South Towards the Bay.

in the north and mastere part of the county; in the vicinity of San Felipe three are a number of flowing welts, at Hollister it rises nearly to the surface by bor-

Ingiluteet.

Hollister,

The consty seat and principal town, is pleasanily located in the nurthern part of the county, and be convected with Sau Francisco by a branch of the Southern Pacine Hailroad from Gilroy, on the main line, and to dislant 94 miles southeast from Sau Francisco. It has population of 1,800, and has a splendid system of water works supplied from three artesian wells.

Single works supplied from three artesian wells.

Sing Jinus,
Stinated clybt miles from Hellishir, and 92 miles from
San Francisco, is one of the old land marks of Californis. One of the old missions, 166 years old, is still
well preserved and used for Catholic servire. The
town romains 550 hakabitands, and is the second largest
town in the county. Six inlies scullings of Bollister,
and the ferminus of this branch of the S. P. R. R. is
the town of

Which contains 550 hishabitants, and is the shipping point of a large amount of grain and hay for the south-ora parties of the eaunly.

Sun Fellip.

Licated in the northeastern part of the county near the line between this and Santa Uniz county, is noted for the large summer of tolacco raised. San Bento is capable of supporting six limes the present population. It has a good climate and rich soft,

tal, which is bound to find its way here, and the returns from the divelopments will bring in a fine revenue from this part of the State. From the agricultural portion of this county the staple product is barby, a whiter crop, and, in ordinary good seasons, it yields heavily. Alfalfa, which is the principal hay crop, is out from five to seven times annually, yielding, at each cutting, about two lones. Vegetables of all kimbs attain an enumenous growth, as do all other agricultural products. The cuttivation of semi-froptical fruits has, of late years, received a large share of stitution, and immense fracts of land have here devoted to their cutture. The principal fruit section is in and around diversible, where there is a strick of country some twelve unlearn length, devoted entirely to semi-froptical fruits, and already the owners are receiving handsone incomes from their orchards. Hyerside is now boating and shipping large quantities of raisins, which are protal, which is bound to find its way here, and the returns from uncer ormania. In the case is switch are pro-mining by judge among this best in California, and misurpassed in the world. Besting semi-popical fruits all those of more northern lattings can be raised, and apples and herries raised in the mauntains are aptics and herries raised in the manusains are mismi-passed for size and flavor. Although these fruits grow in the valley, they do not attain that degree of excel-lence which those grown in the manusains do. Figs, almouds, and, to shart, all kinds of truits and ants do

Another important industry of the county is aplentlure, to which, of late years, a great deal of attention has been devited. Large quantities of huncy have been and are continually heliographiqued from this county

BAN HERNARDING COUNTY.

SAN HERNARDING COUNTY.

The largest in the State in Seathern California, 528 inlies southeast from San Francisco. It is bounded on lice north by Injo county and the State of The Mornous, and covers one square into this and action for the seat by Arlama, the Colorado river their towns, it is regularly laid out, with broad afreels

forms.

Lugunth

Is the name applied to that portion of San Bernardino, and troften comity lying between Oil San Bernardino, and troften and having the Santa Ana river for its morthern boundary, while on the south it is bounded by the food little north of San Timoto coasyon. The editing is deligible fully located. The fruits of the citrus family—the peaks, nyrtheol, and grupe—are principally grown, and are, with the offer, the most profits ble. The famous orange grove of oid San Bernardino, adjoining the set-thement on the west, and the fruit grown in Linguis, its nat excelled anywhere in the State.

The cilimate of the county-is as warled as are the physical features. The willey, owing to its inland position, possesses a cilimate differing from the scabbard towns, the dryness of its atmosphina constituting in marked difference. The spring and fall months are the most enjoyable.

must enjoyable

SAN DIEGO COUNTY

Borders on to the Muxican territory of Luwer Califor-Borders on to the Mexican territory of Lawer Californian on the south, east, on to Artzona, the Intorealariver forming the University and the theorems river forming the University (seed, on the Paulite Ocean; and north on San Barnardino. It is the second largest canny in the Statu, having an area of 9.588,000 area, which is muturally divided into three scuttons. The nuttre mastern half, lying onst of the San Jachia mountains, embracing more than our-half of His herritory, is a part of the great Calorado desert, hadog a barren wasto, and in many places below see hevel; if is characterized by grantino points, sand hiths, drylakes, unit volcaines, hot springs, a grawth of eachis and interestically against the west at the fam. Jachints mountains, and comprises a series of Man Jacinia mountains, and emprison a series of valleys and plains, which rise in the west to the toot

This is certainly one of the handsomest places in Call. | bail, if properly husbanded, that would make thous hail, if properly busonated, that would make flous-ands of acres, now almost valueless, the most pro-ductive land in the world. The farm products are which, barley, wool, honey, and semi-tropheal fauts. Oranges, homons, himes, citives, practices, almonds and English walnuts all do remarkably well. The oranges of San Diego county are considered the among the best flavored of the coast.

San Diego City.

There are really two San Diegos, the old adobe town,

Since Diego City.

There are really two Son Diegos, the old adobe lown, with its the covered roofs, being situated from indical limited, and quite distinct from Son Diego City, which is the stiffed plant in the shore of the bay of the same name, with a population of 3,000. It is the county seal, being the only lown of any importance in the county, and is from 482 in 602 miles from 580 Francisco, according to the route fraveled by land or water. Its saint-froms climate, which is very until, and critainly the most equalite in the world, has made sum Diego a noted sauttarium.

National City.

Some four unless south from San Diego, is a place of several hundred industrials. The shaps of the rathered of which it is the fermions are located here. Banner, a new town, about firm San Diego, is situated in the san Fellip canyon. Grain, fruits, and vegetables of all kinds gave in the neighborhood. Only inhing has been carried on here in some extensibles 1871. Julian, a little inhing lown, is 45 unless methors of the San Diego, among thickly-wonded hills, in a grazing and agricultural country.

The extrema town of the State, by 195 miles as of San Diego. The fact was restablished. In 1819, when the city of the real country are the taglothed in 1819, when the city of the real country are the taglothed in 1819, when the city of the country and the state, by 195 miles as of San Diego. The fact was restablished in 1819, when the city of the real country and the state, by 195 miles as to Marken.

The extreme town of the energy levels that the level program for five was calabilished in 1812, when the level try across the taloundo river helomed to Mexico. The post is on the right bank of the river, 180 miles (2008) THE ON TWENTY-SPECIAL PLACE.

# THE RESOURCES OF CALIFORNIA.

JOHN P. H. WENTWORTH,

EDITOR AND PROPRIETOR.

# PUBLICATION OFFICE:

Vo. 320 Sansome St., Hallack Bullding.

ISSUED MONTHLY

Terms ...... \$2 per Annum.

SAN FRANCISCO......JANUARY, 1883

### READ AND CLECULATE.

When you have roud this paper preserve II and lend it to your neighbors, or seed It to aour orbital in the Eastern, Westerner Southern States, Counto, England and Contental Europe, who will value the information throughous, and might be likely become or send intelligent, industrious facuors to settle in Culifornia.

This number, by the humbred, will be

### PRESSWORK.

The presswork of this paper is done by the Pacific Press, Oakland.

# OUR ANNUAL.

We present to our readers an illustrated double edition, containing 36 pages of valuable reading matter. In order to supply the great demand for reliable information, regarding our State, we publish, in this year's annual, a general article on California, giving its geographical location and physical features; its climate, soil, and productions; its manufacturing and commercial interests. The article also contains a vast amount of other valuable information, regarding our young State's progress and advance, from infancy to man-bood. The annual slso contains fifty two articles descriptive of the countries of the Sinte. They will be found interesting and full of valuable information. They will contribute largely in making known theadvantages which the Golden State can offer for settlement. We take this opportunity, as we shall have an unusually large andience, to say something concerming this journal. The purpose for which THE RESOURCES BEST presented itself to the public, was to make it a thoroughly reliable medium, through which the people of the United States and other countries, could become nequainted with the fact, that California offers a field for immigration, enterprise, enpital and labor, such as the world nowhere else affords. We think we have shown clearly, since it started, that she is fully entitled to this high tribute. The information we spread through its columns regarding her soil, climate, productive interests and commercial advantages, both by sea and land, creates a desire to emigrate. The result is that they come here and settle in various sections, where, by industry, they do well at least, and often become wealthy. It gratifies our pride to know that, through our exertions, we have been justramental in doing something by which a desirable class of i-umigrants have been brought here, who will aid in the growth and development of the State.

Now, we are of the opinion that it is only necessary to show that Culfiornin deserves immigrants to have them. It strikes us that the means of accomplishing this most desirable object, is simply to make known abroad, fairly, the advantages the State has to offer industrions immigrants. And we urge upon our California readers, who have inquiring friends, either in this country, or in the Old World, to inform them of these facts, by semiling The Resonunces of California to Convince them also, that there are within the bruid limits of the State, several counties, such of which contains band emogh yet untouched by the plow, to form a princi-pulity. The information that each number if this journal contains will appeal more foresbly to their judgment and convictions than hundreds of private letters.

It is to be bujued that for the henefit of the State, as well as our own, in the tuttre, our sphere of usefulness will be considerably enlarged by more liberal support from our awa

Culiforniums should feel a pride in a publicuthou which is during so much for the State as this journal is, and send it to their friends,

SOME OF THE ADVANTAGES OF RESPATE | OFFERS TO SETTLERS.

The neenling and favored 'conditions of Califormin, remiler her an attractive field, not only to emigrants from foreign countries, but to those from the more densely populated of the Atlantic States. The comparative remotecess of her situation, and the ubsence of any thoroughly organized scheme to advance her resources in the quarters where the newly-arrived immigrants from the old world necessarily concentrate, have operated to her disadvantage in the acquisition of settlers.

But these drawbacks are being rapidly removed. Information regarding our condition and resources is daily becoming more widely diffused, and the question of distance is no obstucle now that the Southern Pacific Railroul is completed through to New Orleans. It is believed that a line of steamers will soon connect with it, for the purpose of bringing passengers and immigrants from Europe to Culifornia at much cheaper rates than formerly prevailed by the old routes. California, as a field for immigration has no

advocates in the Eastern press; therefore, correct information in regard to all the points hearing on this subject must be circulated and sought for through other channels. Our efforts are constantly directed to the object of supplying this needed intelligence, and furnishing such facts and statistics, as will cuable all whom this journal may reach, to draw impartial conclusions. When a more accurate knowledge of the general conditions of our State prevails among the people of the Atlantic States and Furope, there can be but little doubt as to the destination which the great bulk of intending settlers will select. spread of correct information is the only means that California need employ to attract the immense immigration that she wants. And let us add, that in the effort to make such information more generally accessible, she will confer a great benefit ou those in search of new and permanent homes as well as on herself.

A farm of 160 acres, in almost any of the thickly settled portions of the New England States is worth from \$4,000 to \$5,000. entire products of such a farm, unless within ten miles of Boston or other large city, would not amount to \$500 a year. But ten acres of orchard in this State will produce more than three times \$600 worth of fruit, with scurcely more expense in the way of labor than the New England form would require. The owner of an Eastern \$5,000 form is contented to clear \$100 a year one year after another, but the \$5,000 indiciously expended in good vines in this State, could hardly fail, within five years, to net at least \$1,000 m year.

There is no country where, in proportion to the labor expended, such results can be obtained from farming as in California. As a rule very little of the new hand requires clearing, and the immigrant has not to devote the labor of years in bringing his farm into a tilluble condition. He finds it all prepured and ready to his hands, requiring nothing but his work and industry to reward him with abundant returns. No great provision is required in any portion of the State against long and severwinters. The great majority of those who have come to California with the object of farming have prospered. The discontented element, which is found to prevail here, as in all other construct, consists of those who have relied too much on the untural advantages with which they found themselves surrounded, and expreted to arcure success without much work, The right class of agricultural laborers achiam fail of success here, and to such no State in the Union offers greater inducements. The hulk of our tillable soil is far from being exhausted, and there are milhous of nerrs of the finest armble hand which have not yet been touched by the plow. With fertile lands, an unsurpassed climate and a market at his shoor, the imangrant cannot, anywhere, fluid a more favorable place for settlement than California. Throughout a very large section of the country the rainfull is sufficient for all agricultural purposes, even in the dryest someons,

The reclamation of our swamp and overflowed, which is being prosecuted with great energy and vigor, has, already, prepared for artifement a large area of the mo soil in the world. Irrigation works have made such progress, that he the dry sections, bunds are not now offered for sale without the preaus for all the necessary moisture being first prowhiled.

An immerse field is thus onen to furners, to better their condition, by coming to California.

A PRW FACTS REGATIVE TO OUR MA-TERIAL PROGRESS.

In the course of a better, recently delivered in New York City, by a Returned Culifornian, he stated, among other things, " That in the 30 years since the American people got fairly started in their Culifornia cureer, they buy performed an amount of labor, and created un amount of wealth that is absolutely marveling to contemplate." And yet there are some who say that the State has not made much progress. Since gold was discovered we have produced and sent into the channels of the world's commerce, more than a billion dollars worth of the precious metals. Industry in all parts of the worll has felt the benefit of the stimplus thus given to universal trade; the demand for labor has been everywhere increased and its reward enhanced. Our wheat exports, during the last quarter of a century, have not been fewer than 100 000 000 centuls.

Apart from the precions metals, our annual export trade has attained a value of nearly \$70,000,000. Our lumber trails has ileveloped into larger dimensions. In agricultural pursuits our chief reliance has been on wheat, unit it will, without doubt, continue to be our principal staple product for some years to come, though a more diversified system of farming is beginning to prevail, more and more, to the great advantage, not only of the farmers themselves; but also of the general interest of the State. The area of land under wheat culture, during the past scason, is estimated to have been about 3,000,000 acres; the yield of which we assume to be not less than 40.000,000 bushels. Our natural advantages are such that, notwithstanding our grest distunce from the principal wheat markets of the world, we can compete successfully with Russia and the Atlantic States. A larger area of land is every year being devoted to this cereal.

Onr wool interest has become of great value; the clip of the past year being estimated at nearly 45,000,000 pounds. Judging from present indications, our products in a few years will include cotton and silk, experiments in the cultivation of these sluples baving thus far been attended with encouraging results. Our wine interest is increasing in growth and value year by year. From this industry California will reap as immense amount of wealth in the near future. Last year's product is estimated at 12,000,000 gullous, while a large amount of brandy was distilled from grapes. For fruit growing no part of the world has such advantages as California, the variety of soil and climate, in the different sections, being suitable for the choice descriptions,

Senator Miller, not long since showed from statistics that not withstanding the many drawbacks our State has labored under, on account of the Chinese question, its remoteness from the great centers of civilization and other causes, yet nearly one fourth of the increased commerce of the nation, since 1849, is due to California alone. In general commercial and fluencial affairs, the position attained by the State, and more particularly San Francisco, illuring the period of its existence under American rule, exhibits a degree and rapidity of progress altogether without parallel in history. The world is beginning to have a correct approxiation of the natural wealth of California. People, who n few yours ugo, regarded it merely as a gold and silver producing State are now aware of the fact, that her agricultarul and other products are of more value than all the resources of her mines, as vast and valuable as they are,

The lauking capital of the State amounts to about \$150,000,000, of which sum \$85,000,000 are represented in our various savings institu-The value of our exports by sea, during the past year is put down as over \$55 218,-674. The value of our manufactures, yearly, is something over \$90,000,000. The assessed value of the taxable property of the State is, according to the enthenie massesors return, more than \$650,000,000. These tignres, as representing the more salient features of our Young State's combition speak for themselves.

The foregoing facts and figures, we trust, will prove incentives to our estimens to conthaned enterprise and activity.

THE RESOURCES OF CALIFORNIA IS the host paper on the Coust for furmers,

# E. J. BALDWIN'S Pure Grape

# BRANDIES AND WINES.

A TTENTION IS CALLED TO THE SUST.

Santa Anita Vinevard. San Gabriel Valley, California

# PURE OLD PORT WINE

Vintages of 1875, 1876, and 1877,

Will be found very rich and choice, Warranted pure and of full holy.

# PURE OLD ANGELICA.

Vintages of 1875 and 1876.

This is a Wine of Superior Qual. ity, and such as has never been on the markel in any country, This article SHOULD NOT be classed with the so-called Angelica Wines of this Coast, but is of a rich, rare flavor and full hodied, and NO CORDIAL can compare with it.

# PURE GRAPE BRANDY.

Manufacture of 1875 and 1876. Cannot be excelled, having been bul a few months before the Public, it is meeting with unparalleled favor, to the exclusion of all other brands.

# Special Gold Medals

AWARDED AT THE LAST CALIFORNIA STATE FAIR, AND ALSO AT THE SAN MATED AND SANTA CLARA DISTRICT FAIR.

ALL OF THE

# "BALDWIN" BRANDIES

Are Manufactured from the best selected granes, grown noon soil peculiarly adapted to time brandies, and is always retained in private stack until over five years of age, and none offered for sale at a less age. Guaranteed free from foreign spirits or aculterations of any kind, and the identity of the brand always preserved, which is a guarantee for line quality, flavor, and jority.

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E. J. BARDWIN, ESQ.—DEST SIF I have given plussed in assuring you that your Santa Anna Pure (19)\* E. J. BARDETN, ESQ.—Drop size. I have great please into heastering you flint your Soula Autho Pure Grape Beauty, in my opinion, as in that of many of my trumbs is mut a celled in Boquet, flavor and purity. By any beauty produced in Prance and I doubt from the careful affection point to the selection of the grapes and the method employed in removing the test off, in the papital, of the some viriage, range be found anywhere. I toms great pleasure in distributing the goaker you sent me in many friends, and all see and as a suppressed that our State could boost of such a fine production.

I am, very truly, yours, (Signed.) A. J. HOWIE, M. D.

For United Cold Painches the "HALDWIN IIII VNDA runnet be runaled (for medicinal purposes it is the nirgul of any other) to a stimulant, ii bentoure ogreenhiennil benithschindant, II burtoure regreenble and health ful, not inchembertes or heal effects white everture caused by the nos. This relationed framily is might in a new parroit distilla-manutoritized especielly for Mr. (dalatica-ly a distorbies illentist, which removes all luquisties, and ages and mellows the framily womberfully, has stort time.

For sate by all leading Drugglish, Liquer Merchault-

and first-class Gross is Por (Enstern and Enrolgi Markets, by directing letter

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IRON BEAMS, PLATE IRON, SHEET IRON, ETC.

STEAM ENGINES.



# Standard Stationary Engines.

Standard Stationary Engines.

The ent represents our Improved Slide Valve Stationary Engines, except where the variable cut off is used. They are simple in construction, with the fewest possible parts; some being dispensed with that are in use in the ordinary engines of this class. They are solid, strong symmetrical, of the best material and workmanship, and of handsome finish.

The Steam Chest is cast on the cylinder, dispensing with a troublesome joint.

The Valve is a Slide Valve, working on the side, thus doing away with the wear and tear of the rock shafts. They are made to open full port and to ent off the steam from one half to diveights of the stroke, thus securing full pressure when most needed, and as early a ent off as possible with the single valve.

The Guides are bered and in a line with the cylinder, and so arranged that they may be removed and replaced again with no chance of getting out of line.

The Main Shaft and Connecting Rod are of hammered iron; and the Piston Rod, Valve Rod, and Crank Pin are of steel. All the bearings are broad and lung, with gun-metal boxes, securing the least possible friction.

10 99 EE 25 x x 25 Queen City Portabl Revolu Tions 250 230 200 Dia and Fa Pulley. 74, x 26 x x 29 y 30

Size Fire B 26 x 28 x 28 x

give the



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The Engine may be detached from the boiler if desired, and set up as a Stationary Engine. All that is required in addition to the Portable Engine on Skids, as shown in engraving above, is connecting uppers.

Prices furnished on application.

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No. 1, \$50. No. 2, \$75. No. 3, \$150. No. 4, \$250

# Blymyer Manuf'g Co. Bells.



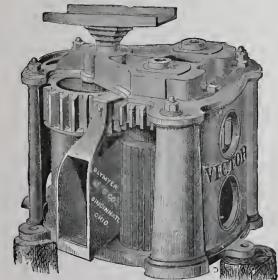
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The Blytayer Manufacturing Co.'s Bells average in price less than one half as much as the copper and tin composition bells and mountings, and are warranted against breakage twice as long—two years.

As to the quality, they are fine-toned, can be heard as far as copper and tin bells of same size, and they are more durable.

											PRIC	ES.	
Si	ze,									1	School	. Fire.	Church.
18-i	neh			,				ı			\$18.00		
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36					ı	lĨ	ı	ü				130.00	165.00
40	1.1						ı					175.00	210.00
4.1	11	ì										215.00	260.00
48	1.0	1										280.00	330.00

# SUCAR MACHINERY.



The above engraving illustrates the Victor Cano Mill, the leading Mill for Animal Power in all States where either the Sorgo or Sugar Canes are grown. It has been awarded the First Premium over all competitors at Fifty-one State Fairs, and was awarded the Crand Medal at the Centennial Exhibition. It has met every mill of any character in all the country at every Working Trial, and has taken the Premium over all. The number sold since 1863 exceeds Twenty-two Thousand.

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King Lawn Mowers: Queen Lawn Mowers.

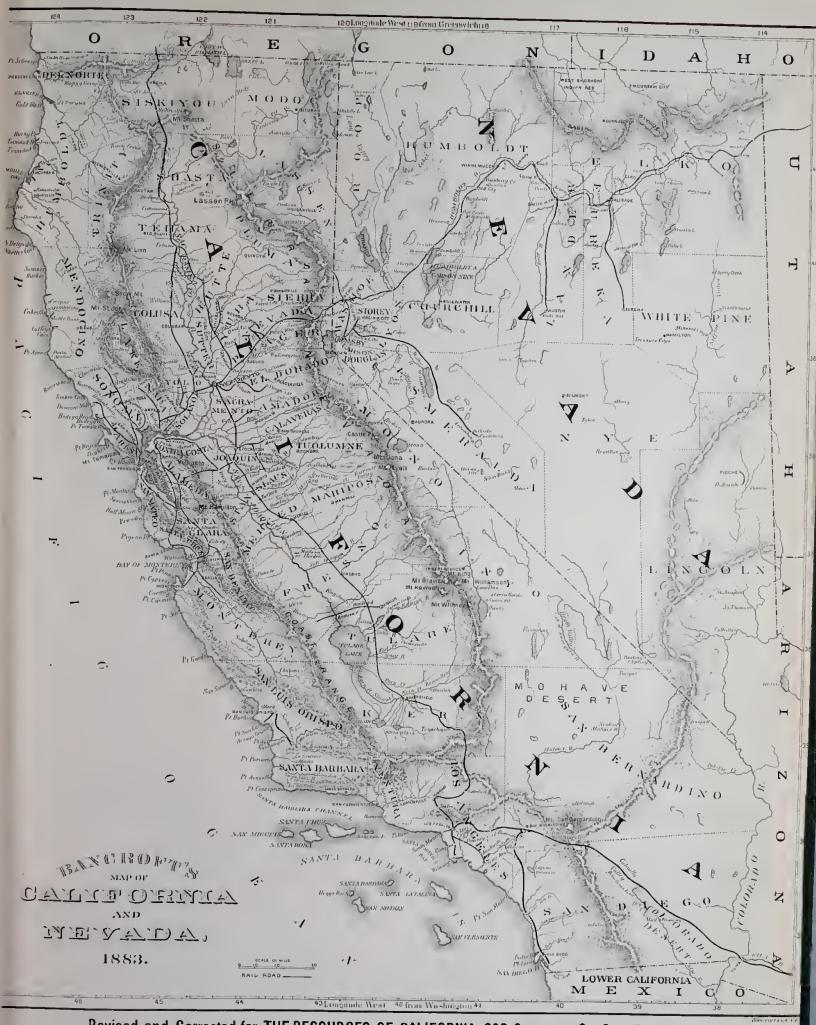
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LINFORTH, RICE & CO., San Francisco, Cal.

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		(	OMME	RCIAL	BANKS.
NAME OF BANK.	Place.	County.	Presidents	Cashier,	Corresponding Bank, East. Corresponding Bank, California. Capital. Surpius.  First National Bank, New York Pacific Bank, San Francisco \$ 100,000 \$ 7.000
	Chico ,	Solana	N F. Cood	A. P. Redding C. Faulkner Thomas Brown	American Exchange, New York. London and San Francisco Bank, S. F. 259,000 33,300 33,300
California, State Bank of	Sacramento	Sacramento	N O. Rubout	A. Abbott	. American Exchange, New York First National Gold Bk, San Francisco 550,000 1,307
Chico, Bank of	Nevads City	Nevada	. E. M. Prasian	, John T. Morgan W. P. Harrington	First National Bank, New York First National Bank San Francisco 200,000 American Exchange, New York Bank of California, San Francisco 400,000  Gold
Commercial bank of Santa Ana	Santa Ana	. Los Angeles . Sauta Clara	B D. Murphy		Eugene Kelly & Co, New York. Donator, Kelly & Fo., Son Francisco. 1,000,003 127,306 Provided Bank, New York Pacific Bank, Son Francisco. 210,030
Dixon, Bank of Farmers' Bank of Wheatland Farmers' Exchange Bank	Dixon	Yaba	S G. Little T. S. Ewing	R Hacklinson	First National Gold Bit, San Francisco 200,080 23,733 Rock
Farmers' and Mechanics' Bank Farmers' and Merchanis' Bank Farmers' Savings Bank	Healdsling	Sonoms		R H Warneld	
Fremers' Bank of Fresho	Fresno	tresno	John W. Hinds	C. G Illines	First National Bank, New York Bank of California, San Francisco 100,000
Grangers' Bank of California	Hlroy Healdsburg	Sauta Clara	L. A. Whitehuest,	Geo. E. Hersey	Drexel, Morgan & Co., New York Sainer & Co., Sau Francisco 200,000 S. Lazard Freres, New York Lazard Freres, San Francisco 55,000 Lazard Freres, Dr. New York Lazard Freres, San Francisco 55,000 S. Lazard Freres, San Francisco 200,000 S. Lazard Fr
Hollister, Bank of Humboldt County Bank Kern Valley Bank	. Enreku	Humboldl Keru	J. W. Henderson	W. M Huntoon	Wells, Fargo & Co. New York First National Gold Bk, San Francisco 58,000
Lake, Bank of	La Porte Los Angeles	Los Augeles	E. Brandon	Dixon Brabben II L. Maoniel	. J & W. Sellgman & Co., New York Anglo-Californian Bank, San Francisco 50,000 4,000 Kounize Bros., New York Anglo Californian Bank, San Francisco 108,000 285,000 8.4.
Martines, Bank of	Mendocino City Merced	Mendocino	Eugene Brown	Win. Heeser	Lazard Freres, New York. Lazard Freres, San Francisco. 197,000 6,938
Modesto Bank	Napa City	. INana	Lewis Lewtan	O. R Griiman	Anglo-Californian Bank, San Francisco 250.00 6.571 Selhgman & Co. New York. Anglo-Californian Bank, San Francisco 100.000 8.001 Selhgman & Co., New York. Anglo-Californian Bank, San Francisco 100.000 8.001
Nevada Bank of San Francisco Pacific Bank Peialuma Savings Bank Sacramento Bank	San Francisco	!San Francisco	III H. McDonald	. L. Vesuria	Ageincy 62 Wall Street, New York   3,380,000   4,660,000   1,000
Salinas City Bank	Salinas Ully Sauta Clara	Santa Clara	Jesse D Carr	C. C. Hayward	Landling & Co., New York Bank of California, San Francisco 30(100) 28411
Sania Cruz County Bank San Joaquin Valley Bank San Jose, Bank of	Siockton	San Josquin	.,   C. I. Leach	. F. J. Huggins	Pirek National Bank, New York   Augho-Gailloffilm Bank, San Francisco   500,100   3,500     Drekel, Morgan & Co., New York   Tatlank & Co., San Francisco   500,100   500,000     Jupp. and Trader Nat. Bk. New York   Bank of California, San Francisco   250,000
San Luis Obispo, Bank of	. Santa Rosa	San Luis Obispo .	J. P. Andrews	W. E. Stewerl W. B. Atterbury	Nat. Ba of State of New York, N. Y. First National Bank, San Francisco 1 100,000 85,812 Drexel, Morgan & Co., New York London and San Francisco Bank, S. F. 200,000 40,000 Seligman & Co., New York Anglo-Californian Bank, San Francisco 150,000 14,222
Staktyou County Bank	Yreka St. Helena Stockton	. Siskiyou	Jerome Churchill. Seneca Ewer H. S. Sargeani	., Fred E. Wadsworth C. P. Hastings . Sidney Newell	Wells, Fargo & Co., New York Wells, Fargo & Co., San Francisco 100,000 Anglo-Cahironian Bank, San Francisco 100,000 Metropolitan Nal. Bank, New York Anglo-Cahironian Bank, San Francisco 60,000 (10,000)
Sonoma County Bank Sonoma Valley Bank Swisum, Bank of	Petaluma Soucum Sulsun	Sonouna	David BurrisR. D. Robbins	Jesse Burris Wm. Woolf	Laidiaw & Co., New York London and San Francisco Bank, S. F. 2001,003 Laidiaw & Co., New York Anglo-Californian Bank, San Francisco 100,000
Tehama County Bank	Red Bluff	Marin Mendochio	C. Cadwalader W. Dutton R. McGarvey	Thos, J Ables	Selfgman & Co., New York. Anglo-Californian Bank, San Francisco 200,000 35,000 National Park Bunk, New York. Pacific Bank, San Francisco 100,000 55,000 Work. Anglo-Californian Bank, San Francisco 55,000 New York. Anglo-Californian Bank, San Francisco
Veniura, Bank of	San Buchaventura Visalla San Francisco	Vestura Tulare San Francisco	R E. Hyde	Henry Clay	Dreel, Morgan & Co., New York First National Gold Bk, san Francisco 90,000 6,115  National Bk of Commerce, New York First National Gold Bk, san Francisco 200,000 8,777  s Wells Engro & Co. New York
Waisonville, Bank of Willows, Bank of Woodland, Bank of	Watsonville Willows	. Santa Cruz	. Charles Ford N. D. Rideout	. W. C. Murdoch	E. Kelley & Co., New York Donahue, Kelly & Co., San Francisco 1410,008   16,668   American Exchange, New York Donahum and San Francisco Bank, S. F. 200,000   20,000   13,000   13,000   13,000   13,000   14,000
Foreign Banks (Sun Francisco Branches) Anglo-Californian Bank, Limited	San Francisco	San Francisco	F. F. Low Mire	P. N. Lilleuthal	ieliunan & Co. New York
British North America, Bank of. London and San Francisco Bank-Limite	d San Franciscod	San Francisco San Francisco San Francisco	. A McKinlay, Mgr A Scrivener, Mgr		Agency, Bank of Montreal, New York         £ 500(100 Head Office)           Bank of British North Am., N. Y.         \$ 1,805(100 Head Office)           Brown, Magna & Ca., New York         £ 420-1126           1,805(100 Head Office)         \$ 1,807(100 Head Office)
NAME OF BANK.	Place.		T	N A L B	
First National Bank First National Bank	. Alameda	County.	President.	Cashier. James E. Baker	Corresponding Bank, East Corresponding Bank, California. Capital. Surpina.  First National Bank, New York
Union National Bank	Oakland	. Alameda	. H. A. Palmer	Charles H. Twombly	
First National Gold Bank National Gold Bank of D. O. Mills & Co. First National Gold Bank First National Bank	. Sacramento	, Sacramento ,	. Edgar Mills	. Frank Miller	First National Bank, New York   First National Gold Bk, San Francisco   201,000   12,000
First National Bank	. Stockton	San Joaquin	Frank Slewerl	H H Hewlett Ma & Ch	Nat. Park and First Nat   Bank N. Y.   Anglo-Cal. and First Nat. Bank S. F.   500,080; 83,295     Chemical National Bank, New York   Bank of California, San Francisco   500,000   13,100     First National Bank, New York   First National Gold Bk, San Francisco   300,100   300,000     Wells, Pargo & Co., New York   Wells, Pargo & Co., San Francisco   100,000
		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		NGB BA	
NAME OF BANK.  California Savings and Lean Society	Place.	County.	President.	Cashier. V. Campbell, See'y	Corresponding Bank, Easi. Corresponding Bank, California. Capital. Surplus.
French Savings and Loan Society	. San Francisco	San Francisco	L. Hottlan	Georgia Lette See'v	300,000 12,251 499,001 1,259,321 1,259,321
Hibernia Savings and Loan Society Humboldt Savings and Loan Society Mendocino, Bank of. Merced Security Savings Bank Oakland Bank of Savings	. San Francisco Mendocino City Merced	. San Francisco Mendocino Merced	Adolph C. Weber Eugene Brown Elias Perkins	A Hartmann	100,000   60,596   9,359   4, & W. Seligman & Co., New York.   Angio-California Benk, San Francisco   300,000   11,779
San Francisco Savings Union	San Francisco	Sheramento	Tamos The Known	W. F Hustoon	Ninth Nat. and Landlaw & Co., N. Y
Santa Cruz Bank of Savings and Loah Savings and Loan Society	San Francisco	Sania Cruz	E. Austin	E. J. Cox	National Bank of Commerce, New York   500,000   2,000   Landlaw & Co., New York   500,000   204,000
Stockton Savings and Loan Society. Union Savings Bank Vallejo Savings and Commercial Bank	Oakland	Alameds	J. W. Mariiu E. J. Wilson	H. A. Palmer, Treas	Laidlaw & Co., New York Bank of California, San Francisco. 500, 600   500, 600   52,300   500, 600   600, 600,
NAME OF BANK.	Piace,	County.	RIVA'P		KERS.
Crafts & Sou	Alleghany	Sierra		Cashler.	Corresponding Bank, East.   Corresponding Bank, California   Capital   Surplus   Wells, Pargo & Co., New York   Wells, Pargo & Co., San Francisco   \$
J. P. Brown & Co	Camptonville	Yuba	***************	****************	Wells, Pargo & Co., Now York Wells, Pargo & Co., San Francisco  Challman Nai, Bank, New York Wells, Pargo & Co., San Francisco  Wells, Pargo & Co., San Francisco  Wells, Pargo & Co., San Francisco  Central National Hank, New York London and San Francisco Bank, S. F.
E. Weiler	Colonia	El Dorado			First National Gold Bk, San Francisco First National Gold Bk, San Francisco Wells, Fargo & Co., Snew York Wells, Fargo & Co., San Francisco Wells, Fargo & Co., San Francisco
H. Scandings E. L. McLare W. & P. Nicholls J. H. Burnham Charles H. Harten	Intel Flat	Pincer		4 4 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	London and San Francisco Bank, S. F. Anglo-Patifornian Bank, San Francisco
A R Chelory	Vort Topus	Chileton		* * * * * * * * * * * * * * * * * * * *	Wells, Fargo & Co., New York Wells, Fargo & Co. San Francisco Wells, Fargo & Co., New York Wells, Fargo & Co. San Francisco Wells, Fargo & Co., New York Wells, Fargo & Co. San Francisco Wells, Fargo & Co., New York Wells, Fargo & Co. San Francisco
Welsshem Bros. & Co Harris & Rhine Wells, Fago & Co Decker & Jewett Utdoord & Smith	Orass variey	Invo			Wells, Furun & Co., Yew York
Itldeont & Smith. Walter Willey	Maryaville Maryaville Michigan Blud	Yuba Yuba Placer		* ************************************	Wells, Fargo & Co., Now York American Exchange Nat, Bank, N. Y., Anglo-Californian Bank, San Francisco American Exchange Nat, Bank, N. Y., London and San Francisco Bank, S. F. Bank of California, Joan Francisco
Walter Wilkey O. Schlund J. H. Goodman & Co. Seely & Bickford.					Bank of California, San Francisco Laidlaw & Co., New York Bank of California, San Francisco Wella Fayen & Co., San Francisco
Phillips, Richards & Co. Rideout, Bmitti & Co. * Microut, Jewell & Co.'s Bank. Thos. Alderson	Oroville	Bulie			American Exchange Nat. Bank, N. Y. London and San Francisco Bank, S. F. Bank of Callifornia, San Francisco
Herbert Krafi  Riverside Bank  James Lawrence English	. Hed Bluif	Teliania	Dyer Bros., Banker	* * * * * * * * * * * * * * * * * * *	Sather & Co., San Francisco.  Laidinw & Co., New York. Anglo-Californian Rank, San Francisco.  Uhaso National Bank, Naw York. Bank of California, San Francisco.
W. A. C. Binith D. B. Carver	St. Helena	Napa Napa	* ************************************	* * * * * * * * * * * * * * * * * * * *	National Park Bank, New York, Pacific Bank, Sait Francisco Lazard Preros, New York, Lazard Preros, Sait Francisco Rusk of California Sait Francisco
Hong Kong and Shanghai Banking Corp., Donahoe, Kelly & Co.,,	San Francisco	. San Francisco	H W Harrios, Agt.		New York Agency, 49 William Sireei 5,000,000 2,000,000 Engone Kolly & Oo., New York
F, Berton & Co	Ban Francisco Ban Francisco	Ban Francisco Ban Francisco	* ************************************	* *************************************	A Isila & Coo, New York
Butro & Co	San Francisco	. Ban Francisco		4 - 7   1 + 7 + 1 + 1 + 1 + 1 + 1 + 1 + 1 + 1 +	A S. Hosenbatto & Co., New York
B. P. Clearing House Association U. M. Gordon & Co. George Wood	San Francisco	. Batt Frauelsco		Ohas, Sleeper, Mgr.,	. Bank of California, Sait Francisco
					10. Olows, New York Pacific Bank, San Francisco



Revised and Corrected for THE RESOURCES OF CALIFORNIA, 320 Sansome St., San Francisco.

I LIVIN 11 VIS. President, San I I ancieco.
JNO. J. VALUNTINC, VI o Pre-desul
and son Superintucionet, San Francisco.
II. II. PARSONS, ASSY TeCy. New York,
II. WADSWORTH, Tracsurer, San Francisco,
WALLACH, GREATHOUSE & BLANDING,
ANDREW, San Francisco.

OFFICE OF THE VICE-PRESIDENT AND GENERAL SUPT.

# Jells, Hargo & Company,

Capress and Banking, San Francisco, January 1, 1883.

Dear Sir: The following is a copy of our Annual Statement of Precious Metals produced in the States and Territories west of the Missouri River, including British Columbia (and receipts in San Francisco by express from the west coast of Mexico) during 1882, which shows aggregate products as follows: Gold, \$30,193,355; Silver, \$50,155,288; Copper, \$4,055,037; Lead, \$8,008,155. Total gross result, \$92,411,835.

California shows a decrease in Gold of \$1,696,351. Nevada shows a total falling off of \$1,484,188; the yield from the Comstock being \$1,333,018, as against \$1,726,162 in 1881—a decrease of \$393,144. The product of Eureka District is \$3,176,656, as against \$4,127,265, in 1881—a decrease of \$953,609. Utah, Colorado, New Mexico and Arizona each show a notable increase on the products of last year.

The increase of transportation facilities for carrying bullion, pig metal, ores, etc., his increased the difficulty of verifying the reports of products from several important localities; and the general tendency is to exaggeration when the actual values are not obtainable from authentic sources, but the aggregate result as shown herein, we think may be relied on with reasonable confidence. with reasonable confidence.

STATES AND TERRITORIES.	Gold Dust and Bul- lion by Express,	Gold Dust and Bul- lion by other conveyances.	Silver Bullion by Express.	Ores and Base Buttion by Freight,	TOTAL.
California	\$14,733,643	\$736,682	\$509,342	\$352,831	\$16,332,498
Nevada	752,506		6,588,023	3,022,847	10,363.376
Oregon	431,024	215,512			646,536
Washington	93,892	46,946			140,833
Alaska		240,000			240,000
Idaho	1,091,208	191,568	882,890	1,160,072	3-325,738
Montana	2,150,000	215,000	4,065,000	1,574,000	8,004,000
Utah	76,954	6,201	3,139,020	4,921,000	8,143,175
Colorado.	2,536,500		4,803,925	18,592,840	25,933,265
New Mexico	43,728	21,864	919,047	2,682,493	3,667,132
Texas			257,597		257-597
Arizona	386,517	100,000	5,631,083	3,180,667,	9,298,267
Dakota	2,595,570	259.557			2,855,127
Mexico (West Coast)	510,192		1,710,249	312,000	2,532,441
British Columbia	537.476	134,369			671,845
	\$25,939,210	\$2,167,699	\$28,506,176	\$35,798,750	\$92,411,835

The gross yield for 1882, shown above, segregated, is approximately as follows:

Gold32	100%\$30,193,355
Silver54	100 2 50,155,288
Copper4	100 % 4,055,037
Lead 8	$\frac{67}{100}\%$ 8,008,155

ANNUAL PRODUCTS OF LEAD, COPPER, SILVER AND GOLD IN THE STATES AND TERRITORIES WEST OF THE MISSOURI RIVER, 1870-1882.

YEAR.	Products as per W. F & Co's Statements, including Amounts	Product after deducting Amounts from British	The Net Product of the	The Net Product of the States and Territories west of the Missouri River, exclusive of British Columbia and West Coast of Mexico, divided, is as follows:												
	from British Columbia and West Coast of Mexico.	Columbia and West Coast of Mexico.	Lead.	Correr.	SILVER.	GOLD.										
1870. 1871. 1872. 1873. 1874. 1876. 1877. 1878. 1879. 1880. 1881.	58,284,000 62,236,959 72,258,693 74,401,045 80,889,057 90,875,173 98,421,754 81,154,622 75,349,501 80,167,936 84,504,417	\$52,150,000 55,784,000 60,351,824 70,139,860 71,965,610 76,703,433 87,219,859 95,811,582 78,276,167 72,688,887 77,232,512 81,198,474	\$1,080,000 2,100,000 2,250,000 3,450,000 5,100,000 5,040,000 5,045,250 3,452,000 4,185,769 5,742,390 6,361,002	\$ 898,000	\$17,320,000 19,286,000 19,924,429 .27,483,302 29,699,122 31,635,239 39,292,924 45,846,109 37,248,137 37,032,857 38,033,055	\$33,750,000 34,398,000 38,177,395 39,206,558 38,466,488 39,968,194 42,886,935 44,886,223 37,576,030 31,470,262 32,559,067 30,653,959										
1882	92,411,835	89,207,549	1 8,008,155	4.055,037	48,133,039	29.011,318										

The exports of silver during the present year to Japan, China, India, the Straits, etc., have been as follows: From Southampton, \$27,390,000. From Venice, \$9,695,000. From Marseilles, \$806,000. From San Francisco, \$5,375,000. Total, \$43,266,000, as against \$27,000,000 from the same places in 1881.

JNO. J. VALENTINE,

Vice-President & Gea'l Superintendent

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Dress Coats from 20 00
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from 60 00
Black Daeskin Pauts from 700
White Vests from 3 00
Fancy Vests from 6 00
English Cords for Hunting Snits
SAMPLES,

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CASSIMERE AND BLUE FLANNEL DVER-SHIRTS,

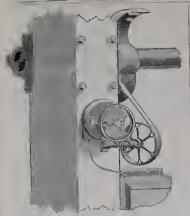
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Of the Newest Patterns and Improved Styles of our own manufacture and warranted shrunk. Men's Suite Com \$15. Boys' Suite Ovirconts, Ulstona. A PPENTION patt. In pattern from the country.

NICOLL, The Tailor PHELAN'S BUILDING, Market Street. SAN FRANCISCO.



The above cut illustrates a new and very complete little machine, invented by C. H. Baker, M. E., for freding quicksilver into the batteries of gold quartz mills. mechanical contrivance and aperation of it is

Within the circular box, the lower part of which also Within the circular box, the lower part of which also nets as a quirkeilver reservoir, just back of, and convenited with the shaft of the gear which, is a hollow take, or arm, at right angles with the shaft. On its outer arm it has a bullouis head, with set serew at its base, which atlows of a small cavity of any heired capacity bring formed below the level of the apex of two oblique passages which communicate from the oppasite subes of externer of said bulbons bead to the intertor age in arm running to the hillow shaft of gent thefore spaken of. The modus operand would be wheel liefore spaken of. The media operandi would be this: Pawer being applied, by means of beit, thin can single to small pulley on right, leanwoilted thence by worm to worm wheel, would dip hollow arm down to quicksilver reservoir, and, as it slowly turn changed levels, all surplus quicksilver above the set-series cavity would dow back into reservoir through the oblique boles, until, as the arms continued to revelve. the exterior of said oblique passages being brought thereby bigher than where they join in the ceuter of arms), and reached its bighest point, the drop wantd flaw down and out of shaft into tube leading to battery. flow doive and out of shall into tube learning in outer. The machine traving few parts, and being very simple he construction, with not get out of order, and cannot be worn out within any reasonable time. Already it has proved its adaptation to the work, fredling once in ten or fifteen untintes, or even in thirty minutes, a large or small dose, as may be required, the quantity being region. small dose, as may be required, the quantity being reg-ulated to a comment by a set-screw, without stopping. Heretofore this has been done by hand, and subject to the attention or inattention of the operators of mills, and often, from necessity, much gold is loss for want of the proper feeding of quicksilver. It is put at the low price of \$35, with all the fittings necessary to put it to ock: weight, 70 lbs.

Manufactured by the Globe Irou Works, 222 & 224 Fremont street, San Francisco, Cal.

# CALIFORNIA MARKET.

CALIFORNIA STREET TO PINE,

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DEPOT FOR THE CHOICEST MEATS, FISH, POUL-TRY, FRUIT, VEGETABLES, AND DAIRY PRODUCE.

Goods purchased in this Market need no other recom-

THOS, BROWN, Superintendent.

The early growth of California Hops neither II Passes Under the Management of a Velmet with favor at home nor abrund; they were said to be rank and hitter and devoid of keeping quidities

About 1870, they were a glut here at ten cents per pound, and one intelligent grower, in that year, told me he despaired of ever raising a really No. 1 article in California.

He had been cultivating his ground for several years; had made quite an improvement in the mode of drying (I think he had patented it; but been very careful in picking and drying his last crop, but was in despair about the uitiunte success. I bud been using his hops and found them remarkably good, and advised him to ship direct to England-to this, how ever, he was decidedly opposed at first, as he had, years before, sent some from the same yard with the most unsatisfactory results. I explained to him my theory of the matter, which was, that new soil contains a vast amount of alkalis and substances detrimental to their keeping qualities; that hops greedily absorb these matters and carry some part of them into the extract; there they produce rubil and acetic fermentations but retain all the bit-After arguing the matter with him some time, he concluded to send I00 bules to Eughund. Messrs. Bass & Co. bought some of them, and the ale made from them took the prize at Sydenham in 1871.

This brought the foreigners into our market next season, and hops ruled at 50 cents per pound. This price, of course, heing very remunerative, many went into hop-raising, and comes our next heavy set back.

Knowing the aversion brewers have to hops from new soil, many of 'the growers sold their crop without name or brand on the hales. Unprincipled men, for immediate gain, took advantage of this and put on favorite brands, with the result that might be expected, and the fuir fame of our State suffered severely. The same practice has been carried on again this year, and unless a stop he put to it it will he worse next year. As your excellent paper reaches almost all the growers, I would suggest through you, that they lose no time in getting a bill before the Legislature compelling every grower to have a specific brand, recorded at the State capitol; that it hen felony to sell or remove a bale or package of hops without the grower's brand being placed legibly thereon; and that it be a felony to copy, counterfeit, use or remove another's brand. This may be crude, as I have stated it, but something of the kind is absolutely necessary.

I would remind them that growers North are much more careful than we are, and it behooves us to look well to our lattrels. There is no place on earth can equal California, if due care C. WILLMOT. is observed. Respectfully,

# THE EIGHTH TIME.

D. J. Staples. President of the Firemans Fund Insurance Company, has, for the eighth lime, been elected, unanimously, president of the San Francisco Board of Fire Underwriters. This is a very high complement to confer upon any gentleman, and shows that Mr. Staples has discharged the responsible duties of position with credit to himself and benefit 10 the association

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# THE BALLWIN ROTEL.

# eran Proprietar.

On the first day of last month the Baldwin Heiel passed under the management of H H Pearson. The Rahlwin has, over sluce it was opened, been recognized as the leading hotel of this coast, and its final passage into the hands of Mr. Pearson lusures the highest maintenance of its regulation. In erecting the Baldivin the wisest care was expressed to produce a bulbling superior to any hotel littlerto constructed, and during the six years it has been open to the public no particu-lar has been discovered in which more heavity or befor convenience could have been sentred. Every one of the six stockes is arranged to the milimitest detail for the comfort and pleasure of guests, for whom it has a capacity of 5mm. The bullding is the proof, strongly constructed, heated in the most central spot in the city, close to the mansions of Nob Hill, and to the midst at all places at armisoment. For the stranger in Sau Francisco no other hotel is as well situated, and with regard to

### The Equipments of the Hause,

They are not surpassed on the continent. The room and furniture are handsome and comfortable, the at-tendants immesses and well trained, and like table hears the best fare in the State. The Baldwin is one of the first prominent sights that catch the eye of the visitor as & reaches the city, and is known not only to the traveling communities of the East, but far into the Ohl World, us a place par excellence. The offen makes as perfect a picture of magnificence as marble floor and counters, plate glass and polished woods, all kept strupulously clean, can offset. Loungers are pro-hibited from the office, and ladies can attend to bush hibited from the office, and failed can attend to make meas at the counter without injury to the finest arishbility. Splandid parlors for the accommodation of the guests, graced with the paintings, plate mirrors, rich carpets, tagestries and elegant furniture. Throughout the house are electric bells, messenger culla and every conceivable commutence. In the lower halfs are tropical plants and everywhere some object of branty. For the phrashro of male guests, a first-class billiard-room, patrouized by the best gentlemen in the town, and one of the hest bars in the city, are located in the A barbor stup is also adjucant to the ground floor. office, and hot and cold baths can be enjoyed without leaving the house, bathrooms and closets being

# Connected with Every Suite.

The dining-hall, situated in the second story, is a masterplece of art, chegant in every detail, and equaled in its delights only by the epicurosu fare with which its tables are laden. For vix years the Balawin has been the chosen abode of more tourists and cauntry visitors than any other two hotels in the city. The people when the State and Oregon, Washington, Nevala, and of this State and Oregon, Washington, Nevada, and Arizona know that their wants can be fiether catered to there than anywhere else, and whenever any public assemblage calling the attendance of interior delegates. assemblage calling the attendance of interior designing, is held in this city, they make their bendquarters at that place. Especially stace Mr Pearson has taken charge will this experience continue. Mr Pearson is one of the othest and most successful bott-keepers in the United States. He was almost born in the bissuess, and has been connected with hotels ever since he was ten years old. He has, at same time, been connected. coars old. He has, at same that, been connected nearly all the best notels on the Coast, and it was under his management that the old Cosmopolitan be-came so manaler or this slope. He buys everything needed for the hotel strat band, refusing to deal with middlemen, and insuring his guests the best artich s to be bought in the market, without being compelled to stint them in quantity to offset commissions and outside prollis. He has taken care lo surround kinasti with the best men in the hotel profession, and boasts a corps of assissants which cannot be rivated.

# Brush flanlenbergh,

Chief clerk, belonged to the St. George, of Sacramenid in its haleyou days, then to the Russ House, the Occidental, the Cosmopolitan, and the Grand, belog in al these places one of the most unpular elects of the las these chieces one of the most impular electes in the last 25 years. M. A. French, the coshler, was connected with the old Rassette House, and was eashier of the Occidental, under the management of the Lelands. H. S. Greety, cheft caterer, has had a wide and leating experience. He has acted in the same capacity is the international, of Virguia City, Sevada, the Atlagton, of Santa Bachara, the Auzerais, of San Jose, the Gattad House, of Oakland, the Occidental, of the city, while managed by the Lelands, and has just been scurred from managed by the Lelands, and has just been accured from the Esmand House of Porthand, the healing hard of the whole Northwest. The high televis B.H. G. Pearson, son of the proprietor, who is also experienced to his housiness, and never falls to satisfy people with whom he has any tamasactions. It requires only a casual visit to the Baldwin to obtain it credit for hedge indulriably man-aged, and a single transaction with hit Pearson satisfies the visitor that his confort will be ably attended to, with the advantage of molecules harge to the oost managed by the Lelands, and has just been accurated Esmand House of Portland, the leading hate

# Superior Accommodations,

Any man, single, and bent on pleasure, or married, and the threemfort of a family to accure, as well as lucitues Any man, single, and best on pleasure, or married, and with the confort of family to accure, as well as incidens one, who will speed one say neather the care of Mr. Pears as not his assistants, will not full be complete the true of his rom order in her eigenstated to come grain timbe ences. Braul generosity, who experience, and her publishment condete the my management to strive and resignal to the winte of girests, before demands can be made for attestion. An doubt on exist as to the outcome of Mr. Pearsards within the modelishing to rise the Bullylin. The hotel itself affords greate apportually ta please the guidte than any other within the recollection of the obtest hisbattant, and the propertor is almost the properties when the properties will be a sufficient to the sufficient of the obtest hisbattant, and the propertor is almost the greatering wants, satisfying them, and charming strong res, as well as irbaids, in the greatest degree. From that the line, the pures has landed the beauties of the hotel, and, since plainer days, the abilities of the hotel, and since plainer days, the abilities of the hotel, and, since plainer days, the abilities of the hotel, and so created acknowledgment wherever that gentleman was located, and now, that the best hotel

and the best hotel proprietor are brought together for public recognition, the heartlest commendation can be corded them, without hesilation, and with truthful

# PIREMANS FUND INSPRANCE CO

The twentieth annual statement of this company, be fore us, shows that the past year, although unfortunate to underwriting, in general, has been a probtable one to this company, which exhibits both a bandsome increase usiness and in not surnius.

In business and in the surplus.

The career of this company, during the past twenty
years, makes a complete recent of the insurance busi
ness of California; for not only did the company same ties of California, including the first fire first fine policy of any Facific Coust curponly, now to externece, but, at the time of the Chleago fire, out of the five California companies represented throughout the East, the Ffremans Fund alone promptly throughout the East, the Fremans Fundatone promptly met every hability, and remained to call the hours and profits of a general business throughout the United States, paying in that year alone more than its entire capital, and for nearly the years literactive was the only representative of California underwriting cast of the

In all the great conflagrations of the past ten years-Chicago, Buston, Vitginin City, Portland, Oregon-aa well as in its full share of the less prominent fires which have sweet our country so constantly, of late, the Wireman's Firmt has been prominently interested, and has, during this time, by the payment of Losses as; gregating many times. Its capital, carned and sustained a character for integrity and ability which has placed it

a consecuer for integrity and addity value has placed it in the very trent rank of fire underwriting. In 1867, the Firemans Fund, which had up to this time here dating an excitatively fire insurance business. Commenced Marine Cuderwitting also, that departments of the commenced Marine Cuderwitting also, that departments of the commenced Marine Condensation of the commenced Marine Condensation of the Con ent being placed in the charge of Win, J. Dutton, the ompaoys present secretary. At that time there were ment being placed in the charge of Win, J Dutton, the Companys present secretary. At that time there were six other locals and a number of foreign agencies actively nugaged in this department of underwenting. Throughout all the vicisatudes of the Marine business dirling the past sixteen years, during which several companies have discontinued their Marine departments, and the solety Marine local has rettried from business, the Martne branch of the Firemans Fund has been uniformly profitable and has norreased in volume until 1882, the Martne remulais of the company were notil 1883, the Marine premiums of the company over nearly if not quite double those of any other American company organized west of New York State.

# THE BREAD WE BAT.

In these days of so much foul adulteration, it is a matter of pleasure for us to be able to recommend the New England Baking Powder being all that claimed for it, which is put up in caus of full weight, and composed only of the lest qualities of cream of tartar and bi-curbonate of soda; which all medical and chemical authorities agree, when condined in proper proportions, constitute a "pure baking powder." In view of the many broads of haking powder in the market, adulterated with infering ungredients, to take the place of one or the other allove costly unterfals, and put extra profit into the pocket of the muserupulous manufacturer, it behowes our readers and the general public to be careful in their choice of a baking pureler for use at home; and we know, from practical experience, that the New England brand will give for hetter satisfaction than anything else of the kiml ahtanımlılır. Practical trinls invariably show New England baking powder to produce the lest results in cooking, while the reports of connect medical mon and chemists satisfactorily prove that it is composed only of cream-of-tarter and soda, mhaced in such race propoctions to evolve the compared in secondary proportions to evolve the highest amount of feaverding gas, and hence wid materially in turning out the lightest and most wholesome bread and buiscuit and cake; such as oll good housekeepers desire to set on their tables.

ANALYSIS.
The old adags, "the proof of the pudding," etc. The old adags, "the proof or the powering ex-whilst being a very homely one, seems to express so much, and appears to be so appropriate, that we append, here with, the proof, as exacerted with Perwison Buters. An assay, to the termine the quantity of the various al-kalotds contained in the Cinchona Rubra bark, is succeskalotds emitalized in the Cinchona Rubra bark, is uncessary to the preparation of every batch of Pennytan Bilters. This connex exquirity, without which this Soverign Panacea would never thave acquired its present well known repitation. With this, all may feel assured that everything is being done to prove that the artifice referred to is emitted to the condition reposed in it; and the guidle may rest assured that occolusor pains will be spared to knoping Perman Bilters up to the mark claiment—the best of the kind.

Assay, by Jas. 6. Steple, Planmace that Chumist

Assay, by Jas. G. Strele, Pharmace tical Chruist, an Francisco, Cal.:

Eight Troy amices of Ctuchona Ruhra back gave 153 which alkaloids.

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# THE CALIFORNIA MARKET.

This market under the able superintendence of Thos Brown, gives outre satisfaction to its very many particus. This market always contains the best of verything—the chinest fruits from smallopic collifornia, and, abut from all parts of the world. All the dealers icall the various departments of this market are indicated condecon to its patrons. Mr. Brown has had charge for many years, and has disclared the important didles in a very acceptable manner to the infilte. The display atways there to the found attrices visitions from a broad as most wonderful, for there is no day of the yace that the linest fruit and freabest of vegetables may not be seen. This market, uniter the able sequerenticulence

# SAN DIESTO COUNTY

[CONTINUED FROM TISTEENTH TAGE.]

rom its mouth, and directly opposite the mouth of the blin. This is considered the indirect place on the Coast, as there are, on an average, 350 clear days in the year There are a number of smaller towns and pre-sincisin the rounty. The population in 1880, of this vest scope of country was 8,618, but will much fully 12,000 at present.

# SAN FRANCISCO COUNTY.

SAN FRANCISCO COUNTY.

In May, 1850, the City of San Francisco first entered upon its formal and logally recognized existence as an independent uninelyability. The County of San Francisco had been duly organized the manife preceding. For upwards of 80 years the two distinct governments enterpolar administrations with the same geographical limits. On the first of July, 1850, the Consolidation Act, muting the two, milet the name and lifte of "The City and County of San Francisco," was passed. Although but 27 years have clapsed since the accomplishment of the consolidation, recknoting from its independent birthday of May, 1850, 33 years in May of the present year, will be the exact ago of the city. The fulfal land area of the city and county is 26,881 series, by for the smallest county in the State, its average breadth from ocean to bay bettig four and one-half, by six and one-balf unlea. bay bring four and one half, by six and one-balf unlead in height. The pentusula on which the city is located In length. is about 30 miles long by fifteen wide, the city and county occupying the western and. There are 1,097 bireels, sycamus, and alleys, which appear on the map of the city, and 27,550 buildings, about 5,000 of which are brick; the balance is of wood. There are 92 church

unnenally large amount of beer monufactured in Sau under of our largest browers are the reasing their capacity. There are three distillation in the State, two of which are in this city. The manufacthe State, two or warring and intending the past year. There are about 500 white men, 200 white temples, and 4,500 Chiurse employed in the manministree of eigure. About 70 mint and shoe establishments are in the city, employing 3,500 bands; it is reflimited that fully 2,000 of three are Chinese. The manunderline of childing and underwear has increased from 25 to 40 per cent, had we are unable to ablata the exact figures so early in the year. We have six extensive hox tartories, employing 450 men and boys; braides a mun-her of smaller relabilshments of this character, there are a large number of Important Industries that cannot appear in so brief an article as this, such as powder works, bag factories, silk factory, jewetry works, rarringe and wagon factorius, billiari table works, wine tauk bullibrs, sash, door, and blint factories, sonn works, agriculiursi works, mirror works, gine factories, Type loundries, frank incierts, terra cella works, shiere works, turniture lactories, barness and sublite factories, fruit rapueries, oil works, marble works, cracker buker irs, glove furturies, etc. H is impossible to give a detailed description of the metropulis of the Pacific Coast in an artirle as brief as we are obliged to make this, but the fine bird's eye view, with its bundreds of ships and steamers, from all parts of the world, lying at author, will glycour Eastern and European remiers a fair libra

# SAN JOAQUIN COUNTY

is bounded on the north by Sacraments, on the cost by Amador, Calaveras and Stanislans; on the south by Stanislaus, and on the west by Alameda and Contra-

head of the Steckton channel, on the line of the Conhead of the Steckton channel, on the line of the Con-fral Pealed (Balfread, 91 miles from San Franchec by rail, and 117 miles by water. This channel is a wide and there are of the Sacramento river, which is now-gable for vessels of 600 funs expactly. The city extents over an area of four square inthes. The character of its over an ares of reference to the buildings are generally very substantial and good, the business purious being build ulmost cultrely of trick, A system of street ratiroads afterday are cumunication believed various parts of the city. Starking is conreded to be the most important grain market of the Partite Const, outside of San Francisco. The deep, navigable channel, radiating from the river into different points in the city, give a convenient water front at many miles In extent, such as is not possessed chowhere in the Sinte. Substantial wharves have been built, with an aggregate length of nearly a mile. In facilities for transportation, Stockton is unusually fortunate. Itali-ronds radiate from this center in all directions; north, south, east, and west, connecting directly with the coliro Surramento and San Josquiti valleys, the mounting connery on the cost, San Francisco on the southwest and the Eastern Stairs by both the Central and South irn Parille Railreads. A daily line of steamers runs between Stockton and San Francisco, heaters innunce. able reafts, entrying thousands of tons of grain to San co, and returning with roat, lumber, and mer-

The manufacturing industries of Stockion are only serund to San Francisco, This, bring a central location, convenient to the great Mount Diable cont fields, fuel may be delivered cheaply by water communication; in t, the facilities for freighting furl municial of all kimls, either by wall r or rall, are not excelled by any locally on the Coast. Stocklon has made rapid strides in her manufacturing during the last five years. Two

wheat. The lown contains about 200 people Tou mile conthifeon Strekton b

Latterpp,
The function of the Central and Southern Pacific rails; it contains a splendid hotel, where all rails atop for refreshments. About lifteen miles southest

Trucy,
The junction of the Central and San Patio and Tube
thistion of the Southerr Pacific Hullroad, 83 mins from The junction of the Southern Facility Hallrown, so maintenantivision of the Southern Francisco via the new road, and Mera Livition. San Francisco via the about 100 people. The other local Ban Francisco via, the new roll, and it ria Livificote. The fown contains about 100 people. The other lower in the county are: New Hope, 50 lababilants; French Camp. 75: Allanta, 50: Arampo, 75 to 160, Buttas Bribita, 50; Collegeville, 50; Elliott, 50, Priem. 10.

# SAN LUIS OBISPO COUNTY

Lies on this west const of California, briwcen latitude 35 and 36 degas, north. The distance from San Line cisco by strainer to Fort Harford is 201 mits; and trum chee by strainer to Peri Martero is not mitte, and trop the latter place, by rall, it is not multisto the lowest San Luis Obispu. The houndaries of the roanly ste Ban Luis Couply in the east by Kern, on the south by Bania Barburs, and on the west by the Factic Coup. It contains 2,022,400 m rcs, 481,487 of which are covered by Mexican giant Biles, and 1,641,162 area are tuited biales Government tiles. The county like between the Coast Range mountains and the Facility Octan, and a Coast Renge mountains and the Perific Octan, and a divided by the Sauta Lucia range into two onequal puris, about one-third lying west of this range and two-thirds cast, and both perallil with the octain a a north-easterly and south-westerly differition. It is well waitered on the west side of the range of mountains by waitered on the west side of the range of mountains by numerous small living afreams that head mountains, and by springs which and their way west



D. R. JONES & CO.'S ISLAND MILL, EUREKA, H. B., CAL.

organizations, all of which have houses of worship in | Costs countles, it has an area of 928 000 acres, 876,287 various parts of the city. Twenty-three large brick business blocks have been adden, all of which are tour and five stories high; besides these over 250 dwellings have been built or commenced during the year. They are generally used, (wo-story bay-window, modern-style houses, costing from \$2,000 to \$10,000. Several very elegant residences, costing from \$30,000 to \$50,000 have been built in different portions of our city.

Multifactures.
There are some 830 different munufacturing establishments in this city, 207 of these are hypotheside comparies, and altogether emphying 40,000 mechanics, making a total yearly manufactured product of over \$15,000,000; these will be largely increased the coming \$15,000,000; these will be brigely increased the coming year. The mammold angar rething of Claus Spreckles, recently completed—a len and twelve slory brick at a cost, including machinery, of \$1,200,000, will lurn out, when in tall operation, 600 lens of sugar per day. There are 32 from and twelve brass foundries in the city; one rolling mill, giving employment to 450 mea, and boys, the wire rope facture, employing some 60 hands; three glass works, two of which were called listed in 1981, furnishing employem in for 250 mea and boys, who are principally regginged in manufacturing hortles, jars, and small wares; me whiches glass less as well been made, but if it the liberation in start such as been made, but it is the intention to start such a yel been made, but it is the intention in start such a factory this year; one rupe-walk, furnishing employ-muni for 50 men and 120 hoys, ten flour and six fred untils are constantly employed, furnishing flour and feed, which is injectly exported to furelya countries; 69 tame thes are used sented in this rity; some of these however, are furnished in different parts of the State, and leaves that fundamentary here. We also have 35 hower. have their fundamarters here. We also have 3f brewerlaw of the city; the Been, focated in the Shern Nevelli mountains, has its hesdquarters here, and the Fred-ricksburg, of Ban Jose, has also an agoncy. There has it

Costs confiles, it has an area of version erresponding only acres of this is owned and assessed, time leaving only 51,813 acres for waste land, which is river-hed and some broken land in the northeastern and southwest cruportion of the county. It is waitered by the San proposed of the county of the county. deaquin river, which passes through it from south to north, spreading into three chaurries a low notes above Starkton and taking in its embrace two of the targest islands in the Stale. No streams of any importance enter it from the west, but on the easterly side, within the Hults of the county, the Mokelmine and the Stanis-lans rivers job the San Jonquin, with a flood sufficient, in certain seasons, to under them navigable for a con-siderable distance, and furnish a supply of water ads-quate to the trigorious of the lamb lying between them, embracing the richest section in the county.

embracing fluctichest section in the county.
The soil of the tiver buttoms is a rich sandy loam, well adapted to the growth of sweet pudators, hope, corn, peannts, flux, home, jute, ramie, throry, metous, small feults, vegelubles and all manner of roid crops, producing concennosty. The control cruity or inples a most favorable and imperiant position, on second of its arresolutivity to the markets of the world, its invegability to the markets of the world, its invegability to the markets of the world, its invegability. streams, its excultant ratherm facilities; its large are of tilindic soil, of the most productive character. While grain growing productive is over all others, stock rule ing forms an inconsiderable part of the industries of the county. Improved due-brid horses, rultle, sleep, and swine have been imported from other runntries, giving the live sinck of this section a wide-spread repolution. For the past lew yours many of the floret houses in the State have been bred by this county. Burrying and the raising of fine ratio are carried on to some ox-tent, while sheep hashoudry is quite on important bedustry.

The county seat of San Josquin county, is located at the

of the largest and most complete flouring mills on the Const ivers thill here last year. Paper mills, see ral extensive agricultural machine shops, tammerles, wondern mills, extensive carriage and wagen factoris, and adiptentibling furnish employment for moreomen any other city of its size on the Cuast

# Lodt

Parolve miles north from Stocklon, has spring into ex-istencialnee the construction of the C. P. it, R., and is now a beautiful village of 1,000 inhabitants. It is to raird in one of the threst spricultural and trust scribins in the State. Two and one-balf tubles worldwrst from Lothlib

Woodbridge,
Beautfully situated on the banks of the Mokelmane
river, at the bank of invigation, fouriers inlies from
Stockion. This is one of the oblest places in the county, and was a distributing port for supplies for the inter-in early days; it is on the edge of the foothills. Eight inflost northeast from Louis is

# Jaukford,

In the center of a fine torning renaminally. Lockford la mure thriving now thun for many years pact, and H contains a population of 450

htoday, Twelve miles east of Stockins, is surrounded by the defect farming books in the county. This section is beautified by scattered tak troos, giving the handscape a meanified by scall First task frees, giving the landscape if the appearance. The town contains about 150 thinhit lands, and the sucrounding country is considered the flures whool-producing serion in the rounty. Statem unites from Strekton, on the line of the Stockton and Copperopulis Indirond, is the village of

Fireming too,
Which is surrounded by a rich forming country. The
farmers in the violally are nearly all engaged in raising

to the ocean. The Sallmas and San Juan rivers, with portion of the county, running in a northern direction

the Mouli rey county.
The soil in the valleys on the west sale of the range The soil in the vulleys on the west stile of the range of municipal, is extremely ferfilly, being generally of a black adobe and loan undure, the lather predominating. The valley lands are well adapted to raising grain, principally bariey, that, oats, and wheat. The redling and fully purifions of these lands are nearly the line same soil, only not so rich, and are belief adapted to abrightg. On the rasis shie of the range of mountains the soil is more of a gravelly nature. The rainful line is light and the climate warm. The soil is well adapted to raising grain, fruit, and grapes. At present large bands of sheete are kept inpunit.

adapted to raising grain, rout, non-keapes, in particular definition of sheet size kept upon it.

About one-fourth of San taits titispo county may be considered as influent lands. Chrome from ore and quicksflyer are found in many places, in paying quantities.

# Sair Jaria Oktapa

Sair Irris Oldspo

The countys and, is breated about nine index from the sea canst and is connected by san Lans Oldspo and and Santis Maria Valley Railroad with Port Harford lits shiftpung point for the town. The edgls nostled hetween the bills on the San Lans recek; it is an abi-Spanisht softly ment, flist selfed in 1712 when the old Missian Church was adultished. If the the year ISPS-3 it remained a fown of a New arbite buildings, with edgls few hundred industriants, when the American scripes came in and hard optimized by the town; at present, it has fully 5,000 inholdbards. The San Lans Oldsgo A. Santa Maria Tarford, and fine ally, to Harford, out, the elly, to

# Arraya Gramle.

Addatance of 31 miles south. This place has a popula-

tion of 600, and is attuated in a line agricultural section. Chyweus,
On Estero hay, is about 20 miles north from Part Har-

ford, and as many south from San Stineon. The land-ing was located in 1869, and a lawn was soon afterwards laid out. A good, substantial wharf is limit, with firstclass warehouses and storage room for shippers, where the Pacific Coast steamers make regular visits turns a work up and down the Coast. The town has spring up within the last two years, and now has several hundred within the last two years, and now has several hundred inhabitants. Land In this victimity is considered the best dairy land in the State. It is principally selfled by series dairyie in. The village of Morro is situated a few miles south on the cross. Here is minimal hurbor, on Morro hay, where a wharf has been built. In the vicinity the land is sainly, and it is better adapted to farming than dairying.

Countries

Le phresautly situated to a canyon, 34 miles north from San Luis Obispo, and about two miles tulsud from Lef fingwell's Landing, where schooners call in winter, and passenger stemmers in summer. The town has 350 inhabitants, a good school, the stores, and two variance and magon shops. Its chirf support is the dairy interest. Several righ quicksliver mines are in the yieldity. but are not worked, at present, on account of the low ico of the metal. One hundred miles distant, is

San Sincere,
The finest laming south of San Francisco. It possesses a good whirf and varehouses, and the Pattle Cost steamers call twice a week. The Government has crefful a lighthouse. The town is small, and the hind

for miles around is all owned by one in an in the miles for miles around is all owned by one in an. The Paso Robbis bot and cold sulphur springs are 28 miles from San Luis Obispo hystago. These springs are famous librogliout the United States, and are visd by courisis and those seeking health fro

The other towns in the county are Cholame, Josephine, La Panza, Musick, Pozo, and San Miguel, which are all quir small. In 1880 the population; of this clunty was 9,142, but the railroad has been extended, and many of the large "ranchos" are being sub-divided, and sellers are taking advantage of these cheap, productive lands, so that the present population is fully

# MATEO COUNTY

Occupies most of the prinisula that separates the aceau from Sun Francisco bay, and is bounded on the north by Sao Francisco; east by the bay and Santa Clara; south by Santa Cruz, and west by the ocean; it has an area of by Santa Cruz, and west by the ocean; it has an area of 292,000 area. The shore funes, on both ocean and bay, are receedingly irregular. The Gabilan Sierra Moreno, or Santa Cruz mountains, traverse the entire length and occupy nearly one-half of its surface; yet, fully one-half of San Mateo county is suspeptible of cultivalion. On the rast, or hay side of the county, is one o the finist little valleys in the Stale. On the ocean side there are also from 17,000 to 20,000 acres of level land Besides these, there are several other valleys, such as Canada, Raymondo, Upper, San Gregario, Pomponia and others of lesser note. This county is only about and others of lesser note. This county is only a five nulles wide at its north cud, and some eighte its southern end, with a length of 42 miles. San Matro to exceedingly well watered by numerous small streams and springs; on the orean side, the most important are Fillarcitos, Purissima, Lobilas, Tanties, San Gregario, Pomponio, Pescadero, Bu'onio, Gazo, and New Year creiks, most of which have considerable fine farming lands along their courses through the mountains, often opening thto considerable-sized valleys. On the bay side streams are less numerona, the San Maleo and San Francisquito bring the only ours of much importance, although there are many small ones. As is well known, San Francisco draws her water supply from San Mateo. The Spring Valley Water Company has large reservoirs and works along the entire length of the mountains. The climate is quite as varied and diversified as the surface. It has been lruly said that in California one may find every variety of climate; from frigid to torrid, from Sahara's dryness to perpetual hun thity. This as-arrtinn is well illustrated in San Matio county, except that the cartenies are no less great as abour expressed. In the northern portion it bears some resemblance to San Francisco's fogs and cold winds. In the central and southern parls the winds distrible and the climite becomes mild and delightful. On the ocean side the fogs roll in from the Pacific, and keep vegetation green the greater part of the year. This county has every validy of soil, the most of which is very fertile. The productions are barley, hay, oats, wheat, pointoes, cabege, and all root erops. Shipping facilities are excel-but. Along the ocean wassels call at various places to summer, but he winter the south winds make it thanger one. Along the hay side schoolers and small eraft, such passing and down the bay, while farther inland the S P. R. R. passes through use of the finest improved val-leys on the Cosst During the last twenty years, the successful basiness men of San Francisco lawe built beautiful courtry residences along the flor of the railroad for nearly the entire length, extending to San Juse, a distance of fifty neirs. Small towns are scattered

# Reilwood City

White couply was, is much be mutifully altrasted along the bay, on the east side, with both water and railroad communication. It is only '9 inthes south of San Fran-cisco, and has about 1.6.9 is instituted. In its vicinity are some of the fluest country residences in California

Spinntsbround.

Spinntsbround.

The second largest town, la situated on the Coast, on Balf Moon Bay, in a fine agrireditural country: it contains about 1,000 Inhabitants. San Mateo, Mento Park, and Behront are really suburbs of San Francisco, as they contain many of her wealthiest citizens.

Lits along the southern end of the county. It is a fine animate resert, and is autroinfied by an excellent aericultural country. The other lowns are Searsville, animust resort, such the agreement of the agreement and such at the agreement of the agreem

ever, it still has considerable timber, which is fast be- few years ago, no sign of a habitation could be seen for ing rapidly converted into lumber. The population of this county, in 1890, was 7,074; but, at the present writthis county, in 1890, was 7,074; but, ing, it would amount to fully 9,000,

# SANTA BAHBARA COUNTY

Lira between San Luis Oblayo on the merth, Ventura on the rest, Santa Bariara rhadin I on the south, and the Partiar arean on the west. The islands in the Partiac, some 20 or bit in this out, belong to this county. Brow Point Conception the coast line hands sharply to the eastward and purallel with this line is the Santa Yucz Canada in countries. The santa area to the feet in height traversing the county, from 5,000 to 4,000 feet in height, traversing the county, from east to west. Dryond the range, running in a northwesterly direction, lie the San Rafed monitains. A large month Rafel mountains. A large portion of the northeastern part of the county is a rugged, mountainous region, con-laining a few small valleys which are fertile, but the balance is a rocky, barren waste. Between the Saula Your monitains and the bay lies the celebrated Santa Barbara valley. This vality is unparalleled in the world for its healthy, equable climate, the islamis in the orean breaking the winds. The most delivate theorem bloom every day in the year, and invalids come here from all parts of the world, and many of them parmanently settle here. The soil of this valley is of a clark, samly loam. The shortest way of reaching

Sature Reviewara

Is by way of the Coast steamers, a distance of \$00 miles

southeast. The town lies within a space of three miles square, gradually rising from the sec to an elevation of 360 feet. Here may be seen the best preserved old Mis-

except, occasionally, a herica's camp. branifful furms, fields of grain, cotinges, and achoolhouses greet the rynon every hand. Lompor has shout 500 inhebitants, and it will, ere long, he a railroad town, as the S L. O. & S. M. road is to be extended from Arroyo Grande, which is now completed from Port Harford, a distance of 39 miles. Between Lompoc and Saula Barbara is the village of

Guadhlape, Near the houndary line of San Luis Obispo; it is situ-alrd in a disc agricultural country, and has about 100 luliabitants. Control City, a small village some len nities coat of Gnalulupe, has a pleusint allower, and the surrounding scenery is very attractive. Los Alamos is a signal actilement on the rancho of the same name. The Los Alames valley, which is of extraordinary fer-illity, is mostly rented in small tracts to farmers.

Carpinteria, Is in one of the most fertile valleys in California, which is mostly devoted to the culture of the Linne bean. It Is mostly devoted to the culture of the Linia bean. It is shellived by mountains on three sides, and apens to the sea. It is situated on the line between Santa Barbara and Ventura counties. A new industry has just been inaugurated here, viz, the cultivation of flowers for distillation, surfa as roses, which, justifiers, orange flowers, etc. The village in the voitey, of the same name, has several hundred inhabitants.

Goleta le a Small village, right miles north west of Santa Barbara, and claims 200 inhabitants. The population of Santa Barbara county in 1880 wes 9,680, which has increased, within the past two years to about 10,000.

ing with several smaller streams, flows southward some twelve or fiftren miles, where it brenks through the hills about twenty miles south of San Jose and on into the lary. The Gundaloupe, a stream of morely the same size, rises in the west ern hills about fifteen nales distant from San dose, seeks the cruter of the valley and flows just the western partion of the city of San Jose, where it forms a junction with Los Gatos creek, thence on to the bay. to the buy. Sau Frlipe creek forms the southern boundary line between this and San Benita comty; it takes a southern direction, emptying into Pajaro river. Numerous smaller streams flow into valley, their waters sinking into the gravel as they reach the plain; but few counties have better water facilities than Santa Clara. The most interesting femiture of the valley is the flowing wells. Artesian water is obtained in the country around the head of the bay, and extending south ward to and including the city of San Juse, in fact to the extreme southern portion of the county. In the vicinity of San Felipe large flowing wells are maily obtained, varying in the different localities from 50 to 350 feet

No better soil is found in the State than Santa Clara valley pussesses. It varies, in some places, lumg a rich adobe many feet in depth, in others black sundy loans, and in others of a realthsh gravally louin with clay mixed with decomposed rack This latter is regarded as the natural soil for the grapo, the choicest and temlerest foreign varieties of which grow here to perfection. On the hill ides the soil is mostly of a gravelly and clay nature, making the best of orchard and vineyard land, where the almoud, pear, apple and many other varieties of fruit are successfully raised.

Many small valleys are scattered through the
mountains on either side of the Santa Clara valley.

There is an abundance of live and white oak, attorwood and several other vrieties scattered through the valley, besides, thousands of encalyptus trees have been planted, some of which are three feet in diameter and from 50 to 100 feet high, In the mountains, on the Mt. Dublic range, there is some pine, while on the Santa Cruz range there is considerable reduced,

It is difficult to give a correct description of climate in California, as it varies so much with every locality. Santa Clara valley is so peculiarly situntial, just across the first range of mountains and at the south end of San Francisco bay, that it certainly has the fairst and most invigorating climate in the State. On the coast range, in the Mt. Diable division, snow falls in winter. Very little snow ever falls in the Santa Cruz range, and in the Santa Clara valley snow schlom ever falls. Frosts sometimes occur severe enough to destroy the most tender plants, but mover to interfere with the growth of grasses or grain of any kind. The rams full from December to April, and occasionally as late as May. This is not a continuous rain, as some may suppose, but showers, sometimes continuing for several days, then there are weeks of pleasant weather; this constitutes the winter in this ralley. Fruit trees shal their leaves as in thr Eust. Encalyptim, live oak, and an endless cariety of other trees and on their dark green foliage in the winter months, when everything is brown and sear in the East. In the snumer the roof trude winds sweep the reast regularly each day, commencing at about ten o'clock each morning and continuing until souset. In the remote calleys, beyond the reach of the triple usings, the summer hout is intense, while in the coast rullbys, like Santa Chira, Napa, Someon and many others where the winds are broken by ranges of mountains, the summers are mild and salubriums, neither too hot or too cold.



# ORANGE ORCHARD IN SOUTHERN CALIFORNIA.



# CLUB HOUSE, SAUCELITO, CALIFORNIA.

sion in the State, with its whitewashed, adobe walls. It is still occupied by the order of Franciscan friare the early archives, and, perhaps, the most correct early bistory of California. A few miles distant are the monitoline, lowering several thousand feel above the bown. The city, at present, has 5,000 inhabitants; but, town. The city, at present, and o, oo the whole whenever railroads enter this favorite spot it will become the great vanitarium for consumptives and invalide from all parts of civilization. In the gardiens of South Berhara coay be seen the paint from India and other delicate plants from China, Australia, Africa, and South America, Tropical Jasmines, the ceders of Leb-anon, the Egyptian paper plact, the loney tree of such Africa, the campher tree of Japan—In fast, one can see a greater variety of choice and rare plants, trees, and flewers at Souta Barbara Iban in America. a greater variety of coore and take power sets of the second flowers at Suite Barbera Iban in any other spot to America in the upen air.

El Montecito.
A charming valley, about four infles cashward, contains

y hamisome residences, and is, properly speaking, outh of Santa Burbura. This valley lies close to the a suburb of Santa Barbara. This valley lies close to the foothills, and opens to the nouthwest into the sea. The forms are mostly small, and once a high sink of cultivation. The lianula, a native of the soulicises islands, may be seen growing here, and, in some places in this wiemity, the land is heavily timbered. Water to about dart throughout the valley. A large portion of the county is well adapted to farnding, but bus hithere been field by large land-owners, and wholly devoted to sheep-raising: but, is 'ely, some of the great' ranchos' have been an subdivided,

if redHow- Is in the north-western portion of the county, where, a

# SANTA CLARA COUNTY.

This is one of the most pronunent countres in all This is one in the most prominent contents in an Onlifering in legislative, limited and health of securey. It is bounded on the north by Alameda, on the most by Stanishaus and Mercal, on the south by San Benta and on the west by Smith Cruz and San Makeo counties. has close connection with San Francisco by three lines of milroud, idso water communication via the southern urm of Sun Francisco boy.

The topographical features of the county are the two ranges of mountains on either solo, with large valley of Santa Chira between fortile plain, running down from the northwest to the southeast the entire length of the county; it is about 54 miles in longth and from 12 to 18 unle-wide. The western boundary line of the county runs along the summit of the Santa Prax mon tnins, the lighest elevation being Mt. Buche, 3,760 nbove sea head. The eastern line runs nlong the summer of the Mt. Dubbe range. highest point, M1. Hamilton, hoing 4,440 feet high; this is the licution for the Lick Observatory, the history of which the renders of The Resources are doubtless familiar with. The county has an n of 623,728 neres.

Sunta Chra has no large rivers, the largest stream, sometimes called a river, is the Cayete, la distant from Sun Jose about ten miles to the which rises in the castern range of hills, and units southwest, on the line of the South Paritic Coast

# Sau Jose,

Is the county seat, with a population of 16,000. It ranks first in architectural branty, location, gen-eral neatness and subcational advantages of any city in the State. It is connected with San Francisco by three lines of railrouds, also water communicition to Alviso, within six railes of the city, the distance by either line is from 47 to 52 miles San Jose is landsomely laid off, with bound strenght streets, beautifully shaded. It has a system of street railrends through different portions of the city, two competing lines to the town of Souta Chira, a distance of three unless, one out to the Willows, where may be seen the linest exchands in the State. Sun Jose has an abundant water supply. Los Gates creek is brought in pipes from the Souta Cruz mountains, Tesides the artision wills throughout the city.

Santa Clora Is the oldest term in the county, duting back to 1777, the time of the establishment of the Mission. It is a beautiful town of 2,500 inhalatants, only three miles from San Jose, and is connected by two lines of steam and two lines of horse railroads. This is quite a manufacturing town. Between San Jasa and Santa Chen is Poplar City; really it is one continuous town between the two eiters along the famous Alamahi Arenus.

# Lars timber

where the Santa Cruz Gaje opens out on the Santa Chen valley. The town is 308 feet almye sen level, and has a population of 550. The place is much sinight for by people of weak lungs.

# Alvian

Is situated at the head of unvigation on the Buyof San Francisco and on the line of the S. P. C. R. R., and at one time, before the milronds were built, was quite an important point. It has some of Santa Chea's largest linek warehouses, a flouring mill, one store; a line of doily stemmers from

Agracy's Station
Is on the S. P. C. R. R., between San dose and Alviso, in a fine fruit and forming country.

### Gilroy

Is situated in the extreme southwastern portion of the county on the S. P. R. R., 30 miles from San duse. The tarm contains a population of 1,600 and is a fine agricultural country in the Santa Clara valley. A daily line of stages run from here to the famous Gilroy Hat Springs. There are several other small towns in this county: Milpitas, on the S. P. R. R., 42 miles from San Francisco, and Mayfield, a nice little town, only 35 miles from Son Francisco. Santa Cherk county contained 35,097 inhabitants in 1880, which would number 38,000 at the present time

# SANTA CRUZ COUNTY

Lirs on the coast between latitude 36,30 and 37,20 degrees north, nearly south of San Francisco; distance by rail, 80 miles; steamer, 78 miles. Santa Cruz is one of the smaller counties of the State embracing 276,400 acres, about one-third of which is fertile valley, plateau and rolling hill lami, and fully 40,000 acres of rich bottom land. The county is about 36 miles long from a northeasterly to a southwesterly direction, and nearly fifteen miles s about 50 miles of coast along the ocean and Monterey buy, which bounds it on the west and southwest. On the south it is bounded by Monterey county, east by Santa Chra and San Benita, and on the north by San Mateo counties. The county is exceedingly well watered, first by Larenzo river and its numerous branches, heading up in the northern parties of the county, running in a southern direction and emptying into Monterey hav near the city of Santa Cruz. Soquel creek heads on the east side of the county and takes a southern direction to the bay of Monterey, San Benito creek forms the southern boundary line between this and Montercy county.

The country facing south from the summit of the Santa Cruz mountains, which forms the northern and eastern boundary, makes an amphitheater of almost perfect aspect facing the bay of Monterey on the south and protected by high wouled on the cast and north, the highest point, Loma Prieta, is some 4,000 feet above sea level.

Pajaro valley, one of the most churming and preductive valleys in all California, is in the southastern partion of the county. This valley is about fiftern miles long and from six to ten miles The soil is of the richest garden land, seemingly inexhaustible. The valley is situated close to the sea, with a railrond running through it, and it is made up of beautiful fields, fine orchards, deep alluvial bottom lands and fertile hillsides, winding streams fringed with trees, and here and there several beautiful lakelets, a range of wand-covered ountains on the northeast, the dancing surf of Northward. Monterey bay on the southwest. near the mountains, is Curraletos valley, running in an apposite direction, a beautiful stream by the same name running through it. Further up is Green valley, which extends up to the timbereil mountains, where the redwood timber belt is reached, which extends the entire length of the evenity, affording good facilities for landing reads up the canyons, making the redwoods accessible Immbering.

The county is well supplied with milmods and shipping facilities. The South Pacific Coast Railroad is a threet live from San Francisco to Santa Cruz (distance 80 miles) through the most romantic scenery on the coast. The milroad connecting Santa Cruz with Pajaro vin Watsonville, has recently been purchased by the Southern California Railrond Company, and will be changed into a broad gauge. The Pacific Coast Stemmship Co. broad gauge. The have a regular established route love; besides there are numerous other vessels constantly visiting this part for lumber, lines, leather, powder, grain and dairy products.

The town is well limit. The landness housecars on the principal street, and are mostly labil of brick. The Watsunville Mill and Lander Company, headquarters of the redwood bunder trade of the coast, sharefront to the coast, sharefront coast, ship from ten to lifteen million foot of lunder movelly.

The third toxic in the county is the village of

# Fulton,

Situated seven miles from Santa Cruz, up the San Lorenzo river, and an the South Pacific Poast Ruilroad. This is quite a lumboring and line producing place. There was V llume, extending four-teen miles up into the redwood forests, where sev-

Railrond, and at a point un the Los Gutus creek eral saw-mills are located, manufacturing hunbert and shingles, and floating down the flumr to the railroad, where it is shipped on the ears to San The Santa Cruz Big Tree grove is last one and one-buff miles from here.

# Sugard,

The fourth village in size in the county, is located four and one-half miles east from Sauta Cruz, on the Watsonville and Santa Cruz Railroad, and two unites from Monterey bny, in a rich agricultural country. A paper-mill, saw-mill, and tannery are located here. The place has many attractions, and contains 200 inhadatants.

# Autos

Lies Introon Suqual and Watsonville, eight miles cost of Santa Cruz. Mr. Claus Spreckels owns a large estate here, and has erreted a magnificent hatid for the accommodation of summer travel. The location is a very desirable and picturesque The hatel stands on high ground overlacking Monterey buy, and is fronted by lown and bountiful florier hads; pretty cuttigus for families are tastefully groupoil in the grounds; every inducament, in the way of amusement, is offered here. The county contained 12,801 inhabitants two and me-hulf years ago which has increased to fully

# SHASTA COUNTY

Lies not far from midway between the two most important ports on the Pacific Caust, viz.: San Princisco and Porthaid, Oregin. It is directly on the overhand route from Mexico to British Columconnecting link to complete which is now being brilt between Rudding, Shasta county, Califormin, and Roseburgh, Oregon. The grent Sacraento valley ends in this county. Shasty county is bounded on the morth, by Siskiyon and Modoc; on the east, by Lassen; on the south, by Tehanna, and on the west by Trinity. It has an area of 2,410,000 acres, and the Coast Range and Sierra Nevula mountains meet within her barders. The consequence is an immense number of conymisgorges, valleys, and ravines, through which the upper Sacramento, or Pitt, and McChoud rivers rush, forming a junction with the Sacramento, which takes its rise is a large spring, at the loss of Mount Shasta, in Siskiyou, about 90 miles above this junction. Shusta has large forests of valuable sugar and yellow pine saw timber, lossides the oak and other timber in the valleys, valuable for fuel paly. In the southern end of the county, at the hend of the Sucraments valley, are the principal agricultural lands. Further north is Shusta valley, we extensive plann, which is accupied chiefly for vattle and sheep. Besides a range there is a large mumber of small valleys, ranging from a few acres to several hundred.

Homever, Shasta's great wealth is in her min-

are, which will soon be occupied, as the railrand | medicinal qualities, which are bringing them into is being built. Redding,

The present muchorn terminus of the O. 11 of the C. P. R. R., is a growing town. It is the largest town in the county, and contains 1,500 inhalatants Preight teams from Yreka, Scatt's valley, Big val ley, Cuppur City, Wenverville, Mount Shasta, and all directions controlize here for the distribution of supplies and northundisc

Andecson

1s a beautiful little village on the railroad, tyrelye unites south of Hedding, in a fine agricultural country. It has a population of 250. Five miles south, in the some valley, and also on the rail-

### Cotton would.

In the extreme eastern protion of the county, Large amounts of wool, sheep, and cittle are shipped from here to Shernmente and the bay.

# Michelylowa

be a mining town. Eve miles north from Shasta, in the western part of the county. There is a number good paying gold, quartz, and placer mines in the vicinity. The place contains about 150 inhabitants, principally miners.



BIG TREES, MARIPOSA GROVE.

eral resources, which are scarcely yet prospected ulthough her gold names have yielded unlifous of dellian, single the dicys of [49]. After the exhaustron of the surface gravel diggings, which have boon marvelenedy rich, expeed the minors to study out the problem of where the gold, which rune to food the gulches and creaks, came from prospe ing for quartz ledges followed. The result line hear most encouraging. In every direction ore has been discovered, and a number of quartz mills has been creeted within the past five yours. Many of the discoverers of quartz helges are without means to prosecute work on a large scale; these austances, urnstress are used preditably, scape places these primitive includes torn out from \$1,000 to \$1,000 per week. A munder of small towns throughout the county is sustained by the mines, the largest of which of streate,

The county sext, some seven unless from Redding, with a paparliction of about 1,200. n protty little mountain town, on the line of stage rantes to Wewneville and Yvoka. The United States hard office, for upper and central Valifornia, is located here. There are yet here laudies at Gavernaout land in the district, suitable to frust cul-

# Francis Gideh.

Fifteen miles north from Shosta, acome of the dilest mining toxins in northern California. The Immons Dearlycord numes are in this vicinity. The place has about 200 people. The principal agricultural town in the county east of the Sacranic

# 20 HJ v 11 in .

Continuing 400 inhalutants. This place lies twolve miles east of Anderson, and has a good mountain

# Coppor City

Lies in the central portion of the county, sur-rounded by some of the best paying manes in the worthern part of the State. South and west from here is a number of smaller towns, such as Centerg Horsetawn, Picty Hill, danscrille, and Iga, the lest of which is the most important. cust side of the Savenmente river is a number of small towns, all supported by the mining neterests in their humodiato varinity. Firmcovilla, Buck loy, Clinrolitown, Bargattvilla, Parkvilla, nud Da Creek. About 190 miles oast from Shasta is Full river, a lively agricultural town of 250 people. Lower Sody Springs is attented some 60 mdes north of Redding. The waters of those springs have

Custle lake, near Custle Rocks, is one the most picturesque scenes in Culifornia. The Clover creek falls are 50 feet high, and are considered quite commitie. To the tourist the natural scenery is grand and suddime, and second only to Yo Senate. Mount Shosta's stupendons broaty lms inspared the minds of painters and poets with its grandenr, such as no seenery on the Coast has eyer done before. It is visible from all methern Culifornia, towering with its perjectual snow, covered peak, 14,400 feet above seadevel, and is just across the line in Siskiyou. Shasta is but sparsely settled to what it will soon los. At present the population is about 10,000.

# SIERRA CHUNTY.

We now come to the most elevated county a Chlifornia, the lowest point within its limits being over 2'000 feet above sea-level. It derives to mane from the Sixrus, which cross the county from morth to south, malarsening the whole of its territory. Sierra is bounded on the north, by Plumas county; on the cast, by the State line of Navnda; on the sauth, by Nevada, and on the west by Yaha, while Butte forms its north-western border. Sierra has an area of 531,200 acres, a tending east and west some 60 miles, and 30 miles from north to south. It is generally acknowledged that Sierra has some of the grandest, wildest, and most exhibiting mountain scenery on the Coast. Some of the highest penks reach 10'000 feet above sen-level. Table Rock, Suddle Rock, Mount Filmore, and Fir Cap all reach 6,500 feet, and Sierra Buttes is nearly 9,000 feet. This is one of the handmarks of the State, and from its summit, look ing westward, can be seen the viest black timbered ranges intervening between the hoze overshadon ing the valley of the great Sacramento, while in dim distance, darkly outlined upon the horizon, is the Const Range. Below, north and south are seen the great gorges of the north and south branches of the Yuba river. This beautiful remutte scenery and delightful climate are rarely equaled in any part of the country. It is enriched with magnificent coniferous forests of red spruce, white or balsam fir, cedar, sugar, and yellow pine timber, of which there are 35,750 acres, with an estunnts of over 200,700,000 feet of saw timber in the county.

Mining, in its various branches, is the chief industry. The extensive gravel mines found here bove been worked since the discovery of gold in California. Crossing Sierra in a northerly direction is a continuation of the rich, ancient aver channels that pass through Nevada county. have yielded millions, and will maure proutable returns for centuries to come. At first, the beds and shores of the Yulu and other streams were rich in gold that fortunes were rusaly made with the pain and rocker. But as these were suon exhunsted, were costly under of working had to be adopted to find the secreted treasure. It was discovered that under the mountains of volcame laws existed channels of uncient rivers, in many cases righer than those that had been worked. There arms annular of good paying gravel mines, among which we might mane, in southern Sierra, the Galden Star, North Fork, and a number of others In the northern part of the county, convacancing nt the lower and of the gravel range, and going northward up the stream, we come Play and the Union Hill; adjoining these are the Cleveland and Surru, and further up is Port Wine, also a very rich place, where hundreds of thousunds of dellars have been taken out. Then follow Codar Grove, Greenwaed, St. Louis, or Sear's dry Still further up the channel, so deeply rovered with lavn as to render hydraulicking it possible, we find drift mining has been reserted to. possible, we find drift imming has now research to At Funon, Hawkeye, Pittsburgh, Moanmental, and Eureka are located some of the richest hydraulic and drift mines in the State. There is an alund-mic of water in this county for mining purposes, and most of these mines own and use a good water

Quantz mining is now the leading industry There are ten wills in the county, five of which wore in equention this senson, crushing over 100, 000 tons of sphartz. Some of the most prominent ore bodies are those of the Sierra Buttes, beated near Sucra City, and discovered in 1851; they have heen in operation ever since. The company are at present, running 50 stamps. For the first twolve years' operation of those mines, the gross yield was \$1,700,000, and the not profit \$1,003,000. The tree is of a low grade. The mills have a very large capacity. The water for driving the machine ery is brought from Surdine and other lakes, at an chevation of 6,200 foct, at great expense. The present average yield of these names is ever \$30 1000 per month. Nour by one the Magrita, which lines a tweaty-stamp mill. Boardes these there are the One thousand and one, Rine Graval, Wiching-ton, Kuroka, and New York. In the yearnty of Gold Lake art the Woodchnek, Wilson & Davis mme, Phowix, Hawkeye, Keystone, Marians, Velcame, Ladi's canyon, and a number of others.
There is a good prospect that this herative branch

of mining will be extensively prosecuted in the near future, as the vast mixing resources of Sierra become more throroughly developed. Nearly all of the cultivated land is located in Sierra valley, which is situated in the eastern part of the county, at an altitude of 5,000 feet. This valley cantains about 45,000 servs of good farming hand, Downteville,

The caunty seat, which was settled in 1849, is situated on both sides of the Yuba river. The tawn lies in a deep canyon, enclosed on all sides by mountains fully 2,000 feet high. Davenieville was men the busy renter of the richest gravel region in California. The streams are spanned by two heartiful landges. Like all mining towns Downleville s irregularly laid off, the streets following the bend of the river.

## Sierra City

Is supported exclusively by miners, as it is one of the richest quartz mining sections in the State. It has a population of 2,200, and has a lively appear-

Has a population of 800. The Bahl Mountain mines, located here, have yielded over \$2,000,000, and paid \$820,000 in dividends. The

# Monutalu Bause

Is a general stage center, 35 miles northeast from Necada City. Stages rata from here to Necada City, var. Comptanville, to Dawnieville and to Marysville, nucking connection with all the manutain stages throughout nurtheastern California,

Sierra's other towns are Goadyear's Bar, Monte Christa, Scales, Poverty Hill, Mount Pleasant, of the county, acquired when Klumath county was Morristown, Gibsanville, and several other mining camus.

# SISKIYOU COUNTY,

The largest in northern Calwith an area of 3,890,000 acres, is bounded on the north, by Oregon; on the east, by Modoc county; on the south, by Shasta and Trinity, and on the west, by Humboldt and Del Norte. As the two great ranges of mountains meet, the surface consists of canyons, gorges, ravines, abrupt mountain walls pre ipices, and sudden little valleys. Mount Shasta, the grandest peak in the State, is a part of the Coast Range, nother between the to sunges it is situated in the outliern part of the county, at the foot of which are se ral extensive valleys that lie at an elevation of from 1,000 to 4,000 feet above seas In the northeastern part of the county lie the lava beds, described in in Modoc county. All of the north-coxtern part of the State, embracing Modoc, Lassen, and the eastern part Sokiyon, is called the 'central basin," and sists of an elevated plateau, from 3,500 to 4,000 feet above

sea-'evel, and surraunded by steep mountains, rising from 6,000 to 10,000 feet high. The whole tableland was formed by some great volcanic averflow of a former period. Two great rivers start toward the sea from Siskiyon: the Klamath to the west, and the Sacramento on the south. streams enter into one or the other of these rivers. Some of these, like the McClaud and Pitt rivers, are considerable streams, thurlding through stony canyons, rocky ravines, over along t cliffs, around little green valleys, and are certainly some of the most picturesque mountain streams in the State. principal industries of this county are mining, stock-raising, and lumber.

The gold mines, both placer and quartz, among the first in the State. among the first in the State. In early times they were confined to the hed of the creeks; and the deelagment of even those claims was greatly relarded by the serious difficulty of traveling so lo a distance from San Francisca, Yreku, the county seat, being 428 miles north. It is still 120 miles by stage from Redding, but will soon be within hearing distance of the whistle of the iron b on the great road between San Franciscound Portland, Oregon. Then muching amelianery can endly be brought in for the development of the rich quartz ledges known to exist. In addition to gold, silver, copper, from enal, chrome, and quickellver are found in the county. The agricultural re-sources are becoming quite important. An incease lacronge of hand is being augmally cultivated. The valleys of the rivers, especially the Khomath, Shasta, and Scott's rivers, north-costern. Siskiyon, and the lake region, taken as a whale, contain

ionny thousand acros of fertile lands, all susceptied the Vacca valley and Clear lake read, intersecting lile of cultivation. Fruits, vegetables, and cereals all do well. The whole country is particularly wall adopted to stock-raising. Hay, for winter, is raised upon the meadows along the streams, while hillsides are covered with hanch grass, valleys all afford good summer pasturage, but the fall of snaw is heavy at this altitude. good Government land are not yet nuncumts of taken up. The manutains and hillsides are clothed with forests of sugar and yellow jone lumber, and will be a great source of revenue to this county, as soon as the railroad is completed. Yreka

The county seat, is situated on Yreka eveck, in the western part of Shusta valley, and cantains about 1,500 inhabitants. The taga was heated in 1851, and is the oblest one in this part of the State. has always been an important place, as nearly all the everland travel between Califovaia and Oregan pusses through it. It is strictly a mining town, 5,600 always scarlevel, and has a good, healthy cli-

# Port Jones,

The second largest turn, lies some eighteen miles south from Yreka. it has about 500 inhalatants, and is an important lusiness center.

# Eton Springs.

in the same valley, is a thriving place of some 400 people. It is the headquarters for farmers, miners, and the salmon river freight.

# Sawyer's Bar

Is a prosperous town in the south-mestern parties

with the Central Pacific at Elmira; thus the field ities for transportation, either by rail or water, are the best in the State. The howndaries of the county are mainly natural; on the south and east is the Sacroneuto river, Susoni and San Pablo bays, a Cumprinez. Putah cryck forms the had on the north between this and Yeld counties, and the summits of the Suscol hills and Blue mountains form the line between this and Napa county on the west. The census of 1880 gave Se lane is population of 17,480, which has increased rapidly within the just two years, and we may safely caunt on 20,000 people within her borders at the present centing. Two-thirds of the hand in the county is being cultivated. Alcout 90,000 necessary swamp and overthee lands; fully 10,000 acres of this are mull flats, left have ut low tide, and about 45,-000 acres are partially evelained and little for agricultural and grazing purposes. ovenly the southenstern portion of the upland of the county. The northern and eastern parts of the county, ombracing about 200,000 neres, are a level, fertile phum,

Pleasant calley is located in the south-western portion of the county, north across the entire cunuty. This little valley is noted for its peculiar, genial climate, being free from frost.

The Assessor has classified the hands of Solano county into five grades. The first of about 40 000 is the very best quality of vegetable and fruit hards, and, in point of richness and productiveness, earned be surpassed in the State. The an island, with low, h second compaises the best quality of grain haid, of one half mile west is

Cash slough. There are a number of small streams, such as Ulattis creek, in the vicinity of Vucaville : Alamo creek, wear by: Pleasunt valley creek, Susun creek and Sulphur Spring creek Salana is lost sparsely timbered with oak juteli juine. The city of

# Vallejo,

Located at the headwaters of San Francisco hay, is the largest city in the rounty, and contains about 6,500 inhabitants. It is the terminus of the California Pacific Railroad, and the ferry, which runs meto North Valleju, connects with all trains over the Central Pacific and Southern Pacific railroads, un the apposite side of the Straits of Curauinez.

### Beulein

Is une of the oldest cities in California, beautifully located upon the Straits of Carquivez, in view of the Godden Bute. It has a population of 3,400. The Central Pacific Railroad Company we recently built their main trank line through this section, crossing the straits on their monster steamer "Solamo," the largest ferrylant in the Benicin has taken an new impetus given at by the radroad. The place has gas works and new water works, & Hamilton have established the largest agricultural works on the Pacific coast here,

# Suban City,

At the junction of the Central Pacific Railroad, is at the head of navigation inland. Suisin has a population of about 1,200. The town is built on an ishand, with low, level land on all sides. About

Fuirfield. The county, seat, a small place of 600 inhabitants The fourth town, in point of population, is

### Dixon.

It has about 800 inhabitants. The next largest town is Vacaville, in the western portion of the county, and situated in one of the best fruit and gram ctions of the State.

Rio Vista is the next town of importance in the caunty, and is located in the eastern part on the Sacramento river. It has a pupulation of about 800,

Elimina is situated at the junction of the C. P. R. R. & V. V. & C. L. R. R. and has about 350 inhabitants

Collinsville, on the ramenta river, and Batavia on the Central Pacific Railrendemistitute the towns of Salano county.

# SONOMA COUNTY

Is hounded on the south by the Bay of San Francisco called San Pable Bayl and Marin county, on the west by the Pacific Ocean, on the north by Memberine county, and on the east by Nupremid Lake counties The highest peaks are Mt. St. Helena, 4320 feet, and Geyser Peak, in the northeastern

part, 3,470 feet high. On the west side of the county the highest elevations are Mt. Pols, 2,600 Table Mountain, 2,440 feet high, and Mt. Hood, 1,500 feet high. Between these ranges of mountains several large and fertile valleys extend northwestorly.

West of Sonoma calley, and separated from it by a low range of mountains, is the main great calley of the county, ranning from San Publo bay in a northwestern direction the entire length of the The southern portion of this large and fortile plane is called Petaluana valley, the control portion is known as Santa Rosa valley, and the northern portion as the Russian river valley. sides these there are are several other extensive vidlovs.

The area of Sonomy county is 850,000 acres, and the present population is 25,000. The natural enriosities of Samonn are remarkable, such as the world-famild Goysers. Litten Springs are at curiosity, where Soltzer water is obtained. Sulphur Springs, Skugg's Springs, Mark West Springs, Alder Glon Springs, all linco different

medicinal qualities

No more diversified soil can be found in any county than Somonn possesses. Fruit and other aropy thrice here. And no other county in Culi-fornia, with so much fine agricultural land, has such immoves fevests of timber. At Gueraccille, tiventy miles marthmest of Santa Rosa, and at the terminus of the S. F. & N. P. R. R., we come right into the heart of the volumed country. Here are found extensive saw-nulls, producing from 12, 000,000 to 15,000,000 feet of redwood lumber annu-



HOTEL DEL MONTE-Finest Summer and Winter Resort on the Coast.

Norte counties Second righ quartz mines are in-There are a untiller of smaller villages scattered all over this mountainous vomitry, among which we may mention Bolco, Butterville Ball's, Besteille, Cedar Puck, Dorres, Dendwood, Daugels, Fairchild, Franklin, Rast Fark, Gilligan's Bar, Humling Creek, Huwkinseille, Huoper-ville, Lincoln, Little Shasta, Quartz Valley, Scott's Bur, South Fork, Tidde Rock, Upper Soch Springs, Vineland, and wnumber of others, population of Siskiyon, in 1880, was 8,610, which ald number fully 10,000 people at this time

# SOLANO COUNTY

Is one of the most important agricultural and fruit counties in California, it has no superior and scarrely an equal in the variety and extent of its For early fruits and rogetaldes it stands first on the list, always sending to the San Francisc markets the first of every variety known and grown in Northern California. It is one of the er counties of the State, having an area of 70 acres. It is very centrally located, its 576,570 acres. southern boundary line being within 27 miles of San Francisco, with an uniterrupted water front of over 60 miles, 25 of which are on the Sacramento river, 25 on Suisan bay and the Streits of Carquinez, and ten say Nupayand San Palilo loops,

Richmods traverse the entire county is vavi directions; first, the California Preific runs diagn-ually necess the county, from south to north, and the Control Pacific has recently built its main trunk line along the castern burder of the country

divided between Siskiyon, flumboldt, and Del about 220,000 acres. The third, a lower grade of farming land, includes the swamp and overflowed lands, with an area of 220,000 acres. The fourth grade comprises the partially reclaimed swamp lands, being of an alkali soil, and constitute about 75,000 nerss. The lifth grade of 100,000 weres comprises the swimpered overflowed (introclaimed) hards, and the high mountain ranges, naperoluct ice, as vet, except for posture. The highest eleva-tion is Blue mountain, some 3,000 feet above sealovel, located along the line between this and Napa

> The Sucramentic cullby undozens the greater part of the northern and eastern portion of the country. Susved valley lies west of the Suscellills, running north from the city of Vallejo, a distance of some eight miles by about three evidth. Suisun valley is about six miles soware. and lies parth of the buy of the Pleasant callby, which lies in the avestern portion of the county, is some twelve unles in length, with un average length of one and one-half miles. scthose there are Green valley, sulphur Sprin calloy and a machor of smaller calleys in the western and southern portions of the vonety.

The Sucramouto, the largest river in California, runs the custorn boundary line. Putals crock, which takes its rise in Lake county, forms the worthern boundary line, thewing in an easterly roction, winding through a rich, level plant for twenty miles, they is lost in the tules which grow along the Sacramento vicer. Sacony creek rises in the Vicea hills, six miles north of the town of Viceaville, flowing in a northmeterly direction to the vicinity of Main prairie, then emptice into

ully. California laurel is a hard wood, a beautiful evergreen, the timber which takes a high polish, and is used extensively for veneer. This tree is found umong the redword forests of California. Madrone is another hard woul that is becoming valuable for the manufacture of furniture, shoe

Russian river is the largest stream in the county There are several smaller streams, such as Gualala river, Mark West creek, Santa Rosa creek, Samona creek, and Sulphur creek. Sononin has the following railroads: the main line of the Sun Francisco and North Pacific; a branch has recently been completed via. San Rafuel, which makes connection with the N. P. C. R. R., and the passyngers from both reads are transferred across the buy on the latter road's lountiful ferry, which is a great convenience to the Russian river and upper country travel; the old route is by way of Donahue, a distance of 56 miles; a branch from Fulton, a few miles west of Santa Rosa, to Guerneville, a dis tance of sixteen miles; Sonoma Railroad, from Somma Landing to the town of Sommy the North Pacific Cleast Railroad, running north of San Rafael, along the coast, a distance of 80 miles; the upper end of this read runs through Sonoma county from Valley Ford to Duncau's Mills, a distance of righteen miles, where it terminates in the great reilwoods of the county

# Santa Rosa,

road is now completed from Sonoma Landing into the valley for a distance of fifteen miles. The cutire valley is taken up with vineyards. Schoma valley is from eighteen to twenty unles long, und from one to six miles in width, There are about 700 peoply, of nearly all nationalities.

Cloverinlo,
At the hond of Rassian river valley, is the terminus of the S. F. & N. P. C. R. R. It has a population lation of 800.

Fulton is the inaction of the S. F. & N. P. C. R. R. and the Guerneville brauch.

# Guerneville.

One of the liveliest towns in California for its size, has four extensive saw-mills, which cut and ship about 12,000,000 feet of redwood lumber animally, In the vicinity of Guerneville is the Great Eastern Quicksilver mine, at present randoying twenty men, and producing 100 flasks of metal per month; Jackson mine, near by, producing about 50 flasks per month. Besides the four mills in operation in Guerneville, there are two at Occidoutal, on the N. P. C. R. R. Ten miles further west, at the terminas of this railroad, and at the mouth of Russian river, are

# Dancin's Mills,

Producing large amounts of lumber annually. We make the following estimate of standing realword yet in Sommu county: In the vicinity of Gurneville, 100,000,000; Occidental and vicinity, 25,000,-000; Duncan's Mills, 75,000,000; headwaters of the The county sent, with a population of 4,700, is sitmated in the center of the valley, on the S. F. & Gunlala, 150,000,000; total, 325,000,000 feet. Sumand which have a gentle, uniform slone, favorable to irrigation, are generally in a position to be well watered from the Stanishus and Tuobunne rivers. and on the south from Tubere lake. The San Jonquin canal, on the west side, now irrigates some 20,000 servs, and is introded to be carried on down through the county in the near future. This is an xcellent opening for fruit culture,

From the best anthurity we could obtain, we would rate the price of land as follows: Within a radius of ten miles of Madesta, which is the central portion of the county, the seil of which is wlight, sandy loam, and at present is farmed to wheat, is valued at from \$40 to \$50 per acro. Revently several large orchards have been plunted in this vicinity. The land on the east side of the Son Josquin, and between the Stanislaus and Tradnume rivers, is considered the lest land in the county; it is valued at from \$15 to \$50 per acre. the latter figure embracing the hest improved forms. Immediately east of the San Joaquin river, from one to five and six miles wide, the sail is an alkali and salt grass, and the land is only fit for grazing; it is valued at from three to tenchdlars per acre. In the eastern portion of the county, along the foot-hills, the soil is red-land, which is summer fallowed, and two crops of wheat are rwised in three years; this is excellent vineyard land, North of Stanishus river the soil is wdark ham, some of which is adabe. On the west side, or he tween the San Jonquin river and the summit of the Coast Range of mountains there are some 90,000

targest town. It has a population of 359, and h surraunded by a large section of fine agricultus conuttry.

# Kulght's Ferry.

The former county seat of Stanishus county, is be cated in the footbills, on the Stanishus river, age the eastern boundary of the county. It was one a flourishing mining town, but has simmered down to 200 people, who are principally engaged in agriculture, fruit-growing, and wine-making. The river furnishes excellent water-power. A smill is located here, and some 300 Chinese chiefly engaged in gravel gold mining. The other towns in the county are Grayson, Salida la Grange, and Ceres, the latter being the largest It is located on the S. P. R. R., and is the ship ping point for large quantities of wheat,

In conclusion we will say that the present pop lation of Stanislans county is 10,000. Consideral. gold mining is still carried on in the vicinity of Knight's Ferry and LaGrange, principally by Chinese, of which there are 1,370 in the county When this county is sub-divided, and water is brought in from the mountains, and the land properly irrigated, Stanislaus will become one of wealthiest counties in California.

# SUTTER COUNTY

Was one of the twenty seven counties into which the State of Culifornia was divided in 1849. h comprised part of what are now Placer and Butt counties. Its present houndaries are: on the north,



# MARSHFIELD MILLS, HUMBOLDT BAY, CALIFORNIA.

N. P. C. R. R. It possesses colleges, fine waterworks and several street railways.

# Petaluma,

Numbers 4,500 people. It has excellent drainage, and its streets are well graded. It is well watered by the Sonoma County Water Works, and is lighted with gas.

# Healdsburg.

Sixteen miles northwest from Santa Rosa is, one of the handsomest towns in all Culifornia, and now loss a population of 2,000. It is situated on a rise of ground between the two valleys, on the line of the S. F. & N. P. R. R. It is well built, and has fine, wide, graded streets, handsomely shaded, and is The climate is one of the firest in the State, and no better hand can be found in any county than in the vicinity of Healdshurg. The updamis cannot be excelled for fine grapes and excellent fruits. Here we notice the superior tillage of small

Healdsburg has fine churches and excellent jurblic schools. A few miles alove, on the line of the ruilroad, is Litten Spring college, one of the most remantic and healthy places in the State,

Sonoma's early history dutes back to 1835, when it was laid out by General Vallejo, who is still living here. Sanoma valley is about 50 miles due north from San Francisco, and is one of the most eligible points for a country residence. Its sail is most fertile and highly productive. Its climate is very equable and delightful. The Sonoma Valley Rajlit is one of the finest counties in California.

# STANISLAUS COUNTY

Is situated in the great San Josepuin valley. western line forms the swornit of the Coast Range of mountains, while its eastern border rests on the foothills or base of the Sierra Nevndas, bounded on the north by San Joaquin county, on the east by Calaveras and Tudunine counties, on the south by Mercell and on the west by Sinta Clara county, thus spreading across the entire width of the valley, and in area it embraces 924,800 acres. The Sau Joaquin river, a naviguide stream for six or eight months in the year, the county some eight miles west of the estimated geographical center. From that stream diverges two tributaries, the Stanishus and Tholmme, both leading eastward to the Sierras, and leth being mayigable for three mouths in the year, are on the east side of the San Jonquin river, which intersects the county from south to morth, the soil of the east side being of a saudy nature, verging to a loamy character as the fauthills are me The soil of the west side is a rich loan proughed. of indefinite depth, and, with an alundance of maisture, yields large crops of coreals. The large average yield, in favorable seasons of alamehut rainfall, is an indication that when, in the future, a system of irrigation is inaugurated, by which these hads may be plentifully watered, their productiveness will insure the most bountiful returns. The valley lands, which comprise the greater partien,

ming up Sonoma county, as a whole, we must say | acres of rich, arable lands, the soil being of a dark, louny nature, and very deep, from 10 to 100 feet; this is excellent land to produce, when there is sufficient rain, 50 and 60 bushels being raised to the All of this land will be irrigated in the near future, from the San Josephin canal, which passes through here. Artesian water is easily obtained in the valley by boring 300 feet.

The Southern Pacific Railroad passes through the central part of the county, from Son Prancisco to Los Angeles. The terminus of one of the branches of the Stockton and Copperquolis Ruilroad is at Oakdale, which is located on the south bank of the Stanislans river, 34 miles southeast from Stockton.

Madeste,
The county seat, is on the line of the S. P. R. R., 103 miles southoust from San Francisco. It was laid out in the full of 1870, and possesses a popular tion of 2,300.

# On kein fo,

In the eastern part of the county, ten miles below Knight's Ferry, and 31 miles from Stockton, contains 950 people. The town site is vn n sandy Idatemi, thickly covered with live ank trees. Oakthat is the shipping point for most of the freight and travel to Tudmuno vointy, which is here and traver to trans, transferred to teams, Turbuck,

In the southern portion of the county, on the line of the S. P. R. R., is the central point for a large

of the S. F. R. Tr., Bethe central point is a sense of fertile country.

10 HP's Perry,

In the south-western portion of the county, on the western bank of the Sun Joaquin river, is the next

Butte, west, Yuha and Placer, east, Yolo and Colusa, south, Yolo and Sacramento counties The Sucramento River forms nearly the whole of the western boundary, while the Feather River, after forming nearly two thirds of the western bue. flows through the southern part of the county into the Sacramento. The facilities for mavigation and irrigation are unsurpassed, the Sacramento being unvigable at all times of the year. So is also the Feather, as far as Yuba City, the county : The Bear River, quite a considerable stream, flows through the southern part of the county before it empties into the Feather River.

The Buttes, a collection of mountain peaks, situatol'in the northern part of the county, rising to a height of 1,000 feet, occupying an area of four by twelve miles, constitute the hilly portion of Satter county, the balance of its territory being all level, and most of the soil in the county is a rich ldack lount, a great partion of which is subject to over flow, caused by the hydronlic mining along the upper Yulov and Boar rivers. A great portion of the finest laction land, that was first settled as early as 1850 to 1850 is now abandoned, being corered up under 20 feet of sand and gravel by the swertlew of these rivers. Rowever, there still remains a large portion of the area of Sutter county as good and productive agricultural lands as there is in the State, producing hwgo crops of wheat, larley, cuts, corn, hours, potatices, hops, onions, hay, and all kinds of root errops. Fow places in the State worden handsomer and more confortable farm buildings than Sutter county, which fact is suggestive of the prosperity of farmers in this le-

cality. The climate of the upper Sucramento valley is quite hot in summer, but the nights are always cool. Vegetables and fruits of all kinds attain an immense size, an account of the rich soil, long seasons, and abundance of rain-

Yuba City,

The county seat, lies on the west bank of the Feather river, only one mile from Marysville. The river here is spanned by a bridge, making communication good, as Marysville lies on the C P. R. R., (O. D.), only 50 miles north from Sacramento The Sacramento river steamers run at all sessons of the year, thus giving the greater portion the county good market facilities by Proight stemmers run regularly on the Prouther river, from Yubn city to San Francisco, transport ing the country product at cheap rates. Yuhn city has a population of only about 700; Marysville, which is so close to it, is the principal commercial center for the upper Secramente valley, The population of Sutter county is 5,159, principally farmers, although there is a number of small places in the county, with one or two stores, such as Barry, Bear River, Brown's, Brittons, Columbia, Clay, Eagle, Fairview, Franklin, Lee, Live Oak, Murry, Nicolaus, Noys, Pleasant Grove, Salem, Sutter, Union, West Butte, and Willow Pend. Sutter county is settled by farmers, who have spent large sums of money in levying in the streams, and reclaiming lands which now produce enormous crops.

# TEHAMA COUNTY,

In the north-western portion of the State, is bounded on the north by Shasta, east by Plumas buil Bitte, south by Butte and Colusa, and west hy Mendocino and Trinity. It has an area of 2'000,000 acres, and the Sierra Nevadas occupy the eastern part, while the Shusta mountains, belong ing to the Coast Range, are in the west. The mid-ille, between them, is really the northern section of the great Sacramento valley. The Sacramento river flows through it, and the mountains are covered with excellent saw timber, consisting of low and angar pine, and fir is found, especially on the western slope of the Sierras. The lumber interest is second only to agriculture, which is very moortant, especially in wheat, barley, outs, and There are two kinds of productive valleys: the level lands near the rivers and small hollows in the mountains. Their fertility is a feature of the State. The soil of the valley lands of Tehana is a dark, sandy loam, and very productive. The adobe lands, formerly considered valueless, have been proved to be some of the very hest, By summer-fallowing they produce enormously second year, and are inexhaustible. is the largest crop at present. Fruit and vineyard culture are becoming noted in Vineland, Ex-Gov.

Stanford is irrigating it, and preparing it for the planting of the largest vineyard in the world. He s visited the most noted vineyard countries of Europe, and employs hundreds of man. The cliunite, in the mountains, is nearly perfection; in the valleys the summers are hot, but the nights are

Red Hing.

The county sent, lies on the west bank of the Sucramento river, 274 miles morth from San Francisco. It is at the head of invigation, and also on the O. D. of the C. P. R. R. The city suffered a severe fire in the fall of 1882, but is fast being rebuilt. It is pleasantly situated in a fine forming commuuity, and has a population of about 3,500.

Teliama,

The second town in the county, has a very pleasant beation, on the west bank of the Sacramento, and at the junction of the California Pacific Railroad and the Oregon Division of the C. P. R. R., twelve miles south of Red Bluff. The C. P. R. R. has recently been extended from Orbind, and when completed to Reschurg, Oregon, it will be a great thoroughfare between Mexico and British Colum-Teliuna has a juriulation of 700.

The other towns are Antelope, Butte Mendows, Coast Range, Cascade, Copyland, Cottonwood, Elder Creek, Elktown, Elmore, Elkins, Flayd, Gleasonville, Henlyville, Howell, Hanter, John-son, Lowery, Live Oak, Lassen, Mone's Ranch, Montgomery, Murry, Oak Creek, Riceville, Raiv-son, Reed's Creek, Reil Bunk, Stony Creek, Justin, Toomes, Vina, and others. The population of Teliams county, in 1880, was 9,300, but, at present, it would amount to 10,000,

# TRINITY COUNTY

Lies in the north-western part of the State, and is bounded on the morth by Siskiyon, east by Shusta and Tehuma, south by Mendocino, and west by Hamboldt. It is about 126 miles long, from north to south, and from 15 to 36 mlies in width; it contains an area of 1,680,000 acres. The greater partion is mountains, the Shasta range forming its eastern line, and the Scott's mountains the north-The county is named after its principal river, which, with its numerous tributaries, waters the whole of the territory.

Gold mining is the chief support of the county; the gold shipped usually from this county uncunts to nearly one million dollars. The population of the whole county is only 4,998, nearly all minors There are many prosperous mining camps in the

Wenverville

The county seat, and one of the prettiest little towns in the mines, contains 750 inhabitants. It is situated on Weaver creek, in a circular basin of four or five miles in extent, and is built an good

mining ground. Some of the lots were worked to the bed-rock before the buildings were erected, It is surrounded by many fine earlierds, the fruit of which attoins on excellent flavor in this locality.

On the stage road from Shusta to Yreka, is the second place of importance. The valley has a number of good farms, the produce of which finds ready sale at home to miners, teamsters, and travelers. There are good paying names in the sur-rounding hills. Hayfork valley is an important farming region, and there are a number of good farms along the Hayfork and the smaller streams complying into it. Indian Creek is a mining comp at the head of this stream, on the dividing line between Shasta and Trinity. There are some good paying quartz ledges in the vicinity.

Douglas City,

On the Trinity river, at the crossing of the wagon road from Hayfork to Wenverville, is the central point for a good mining region. Legistron is also n the Trinity, eleven miles above Douglas City. Two bridges span the Trinity; one at Lewiston, and the other at a small place known as Grass valley, leading out from Weaverville. The Deadwood quartz district is in this vicinity. Minors ville is on the east fork of Stowart's fork of the Trunty river, in one of the best gravel mining districts in the county. Cinnibar, or Altonia, is the most northern settlement in the county, and is a small place. It is in the quick-silver mines, which are now only partially worked, on account metal. Junction City lies southwest of Weaverin a good paying gravel mining district. North Fork is some eight miles below Junction, in a good mining district. Cux's Bar lies ten miles below North Fork, surrounded by rich gravel claims. Martinviles is in the morth-western porclaims. tion of the county. New River and Rattlesmike are small settlements, only accessible to pack trains. Conyon City, on a creek of the same name, is nine miles from Junction City and 18 from Weaverville, in a good mining district. most serious drawbuck to the county is its long distance from a market. Weavorville is 218 miles morth and west from Sacramento. The route is by rail to Redding, and from thence the distance is 180 miles by stage. The unuutain wagon roads are usually goad. Trinity has considerable good saw tumber, and very fair agricultural hard open to

# TULARE COUNTY.

Lies immediately south of Fresue, and is bounded on the cast by Inyo, south by Korn, with its western corner touching on to Monterey county. It has an area of 4,100,000 acres. Tulare belongs to the great San Joannin valley. The typographcivi features of the county is made mood mountain,

lake, valley, swamp and everflowed limits. About 2,000,000 acros being mountain, the highest peaks of the great Sierra range fringe tha eastern border: Mount Whitney, 15,055 feet high; Mount William on, nearly the same height; Mount Tymball, 14,386; Mount Kaweah, 14,000, and others exceeding fifty in number, of over 13,000 feet above sca-level, are grand scutimbs of the Sierras, towering above all other hools in the United States. The scenery among these mountain peaks is of inexpressible grandeur. Bright mendows are in the deep valleys mee filled by ice in the glacial period, and the gigantic trees, of 115 to 120 feet in circumference, and near 300 feet high, are found on the mountainsides at an elevation of 5,000 to \$,000 feet almost the son. Almost 1,000,000 acres of the county is broken land, with small, elevated valleys, ceptible of settlement, where the herdsmen keep their flocks of sheep and gattle in summer.

The Visulin hard district embraces Fresno, Tulare and Kern counties. These counties com-prise a great level valley, with the Sierras on the east, and the Coast Range on the west. contain more than 500,000 acres of level land, and npwards of 2,500,000 acres of mountain und foot-hill land. Through the center of these comties runs the Southern Pacific Railroad. The oddnumbered sections of land, for twenty miles on each side of the read, belong to the Ruilvord Company. The even-numbered sections of Government built, within these limits, are held at \$2.50 per acre. The Government lands, outside of these limits, are \$1.25 per acre. None of the Government lands are subject to private entry; they can lo obtained only by pre-emption and homestead settlers. There is more or less yearnt Government land in almost every township in the district, amounting in the aggreate to many thousand A large portion of these vacant hards are arches. good, and are capable of producing, with proper cultivation, all the products of the soil of the tem-Much of those vaperate and semi-tropical zones. cant lands are as good in quality as private lands in the district worth 825 per here, but these lands have been mereased in value by cultivation and means of irrigation. Facilities to make the public lands equally valuable.

This county is well watered by immorous streams, each head in the amountains and empty into Tularo Lake, the San Josephin, Kaweah and Tuline rivers being the most prominent. Tulare Lake is the largest looly of fresh water on the Pacific Coast - It covers an area of about 220,000 mores. It has an overflow outlet into the San Juaquin river, and seems by nature to have been idaced as a great reservoir for the storage of water to irrigate the arid west side of this great river. The principal town in the county is

Visualin,

the county seat—It has a population of about 2,000, and lies 233 miles southeast from San Fraucisco, and 8 miles—east from the Southern Pacific Ruilmad, but is connected with great a thoroughfure by a private railroad from Goshen. Visalia is beautifully located on one branch of the Kaweah river, and groves of evergreen and deciduous oaks, which ornament the country for miles on every oi.le

Banferd.

the second largest town in the county, is situated in the famous "Mussel Slough" country comprising the finest body of agricultural hand in the county. Hunford lies 14 miles west of the main line of the S. P. R. R., on the Goshenolivision of the same company's roud. It contains 900 inhabitants, has fine waterworks and extensive grain warehouses,

The largest town in the county is
Tulare Chy,
Lacated on the main line of Southern Pacific Railrand and the terminus of the northern division. Extensive shops for the repairing of becometives are located here, famishing employment for a number of mechanics. The town has a population of almost 800.

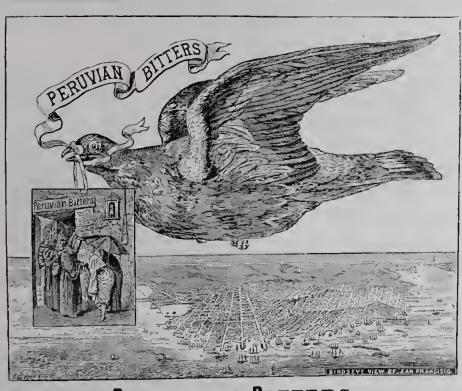
Grangeville,

is lucated in an excellent grain and fruit-producing country. The hard here is all irrigated, and pro-duces large crops amountly. The town contains 150 minibitants

Theather towns of the county are Lauroce, Portorville, Goshon, Farmersville Woodville, Grand-view, Plano and Tipton, the two largest being Lamore and Porterville, which have a population of about 200 each. The capabilities of this county for supporting a large population are remarkable Here are immense forests of timber,

# TUOLUMNE COUNTY.

In the western slope of the Sierras, nearly due oast from Son Francisco, is lounded on the north ly Alpino, on the rost by Mono, on the south by Mariposa, and on the west by Stanishas and Cal-Within the limits of Tuolumine county is ir versus. great variety of matural wanders, the greatest of which is the Hatch Hatches valley, being second only to the Yo Semite. There are two big tree groves; the larger on the Stanishus river, in the morth-western part of the county, and the other on Tholumne river, near the southern boundary. The



# BITTERS. PERUVIAN

AS A BEVERAGE. AS A REMEDY. NEOTAR! SOVEREIGN ! AS AN APPETIZER, AS A WHOLE. - UNEQUALED! UNPARALLELED !

than any on the Coast. These, and the mammeth cave, lately discovered, entitle Tud-man to a place first in the list of countries of natural wonders. The reason of their being unknown heretofore, is because of their remoteness from rontes of tracel, and are so situated that they are not necessible through means of any conveyance, excepting on horseback, over rangh mountain trails. But they must be mude more necessible for the sight-seers of our wonderful country.

Mines and mining are the principal interests of the county. The Excelsion, Riverside, Buchaman, Golden Gate, and Santa Monien are all large mines. A network of quartz veins threads the granite and slate ranges, hundreds of which are yet improspected. Among those that are being worked, few, if any, are fully developed. There are only ten mills in operation. Some parts of river channels that have been opened have proven extremely rich. Aside from the gold mining, there altound inexhaustible quantities of a very superior quality of marble for monumental and imilding purposes. Limestone, slate, llagstone, and plumbago mixes are among the valuable mineral depos The whole county is well timbered with forests of valuable yellow and sugar pine, fir, and "Sequeia" There are fully 500,000 acres of good, tillable land, open to settlement,

Sonoru,
The county seat, is situated on the left bank Woods creek, in the south-western portion of the county. It has almost 1,400 inhabitants, and is county. It has almost 1,400 inhabitants, and is reached from San Francisco by r.ul (by way of Stockton), to Oakdale, the terminus of the Cup-peropelis road, and from thence by stage a distance of 35 miles; the total distance is 157 miles east of San Francisco. There are a number of good paying quartz mines in operation in this vicinity. Next in size and commercial importance is

## Calmaddis

Four miles north of the county seat, in a rich mining section. It contains 12,500 inhabitants. Chinese camp, eight miles south-cast from the county seat, has 400 inhabitants. Some fifteen east is Big Cak Flat and Garnta district, amid rich and extensive mines.

Fruit-raising, to which the soil is adapted, is one of the growing interests of the county. Semitropical fruits and vines are cultivated, and raisin grapes do remarkaldy well in the valleys and lower foot-hills. The area of the county is 1,250,000 acres. Forty or fifty thousand of these might be cultivated to fruits, vines, and cereals. The population of Tuolunine, in 1880, was 7,848, but would reach about 8,000 at present.

# VENTURY COUNTY.

Is bounded by Sauta Barkara and Kern counties on the north and west, on the Pacific Occau, on the east by Los Angeles county, and includes the islands of Nicolas and Auscapa. Area 1,296,000 acres. The San Rafael range of mountains form the northern line, the Fernandound Sauta Susanna.

The country is well watered.

Principal Valleys are Simi, Los Posas Santa Clara, Pleasant, Ohi and Nordholf, Freet and are seldous seen, and little irrigationes re quired. Los Posas is, perhaps, the lest in the county, and its lands are all tillable. Santa Chra has an extreme length of about 50 miles, and measurers about 25 in its widest part, and lies along the Santa Clara river. Its lands are good and well watered. Irrigation is but little needed but artesian water can be obtained at less expense here than in any other part of the State. Nord-hoff valley is about 22 miles long and 11 in width. Through it, runs the Ventura river, in a winding course, to the sea

The oil of Venturn has scarcely been touched. The time is not far distant when this will be one of Ventura's greatest revenues

# San Hachaveaturn,

The county seat is situated on the sea shore near the mouth of the Ventura river. The site is ad-mirally a lapted, by nature, for the building up of an attractive and imposing city. Looking cast-ward we could see the brand valley of the Santa Clara, covered with waving green fields, and miles beyond, in the distant horizon, hom up the Gunda-lasen Mountains in a line towards Los Angeles; further to the right Point Magn, its bold hinff intting to the sea; in the middle distance, to the south-east, is Hueneme Light-house, which is phindly visible by night. Turning north, up the valley of the Ventura river, is a line wide avenue leading out of town with fine orchards and well sultivated gardens and residences of some of Venturns, weathest citizens. On the principal lum-noss street may be seen the Ohl Mission in a good state of preservation. In its archives are three ald leather backed manuscripts, recording the fact that San Parenaventura Musican was founded March 31st, 1782.

lies on the coast twelve miles south west from San Businesenteric. It is situated on nearly level ground, almost tenching the sea. Away to the south-work, twelve miles out at sea' hea the island. The terminus of the V. V. & C. L. R. R., is lace

former contains a greater number of the "Sequeia" of Anacapa, a famous resert for the California Gigantra" than any on the Coast. These, and the seading father west the island of San Nicolas. This is considered one of the linest agricultural sections in the state. Between San Buenacuntura and Newhall, in the Santa Chan valley, lies the second largest town in the county, Sunta Paula, surrounded by Orange orchards and grain fields, the cillage has 200 inhibitants.

# Angellanff.

A famous resort for pleasure seekers and invalids is reached by daily stage and is togeted about 12 miles from San Buenaventura in what is known as Upa valley, it is beautifully situated between the Ventura river on the west and San Antonio creek

### Satteev

Is a small place, near the renowned Saticov spring It is the centur of a magnificant agriculturial country. Ventura county also housts of several good mineral springs, which are frequently visited by

A good quality of matural soap is found here. Large quantities of gyjounn have been found in the Ojid valley, and near the bench a very super-iar quality of potter's clay. Asphaltam is found along all the streams. There are many thousand acres of government hand, mainly in the mountains. There are numerous little valleys scattered through the mountains where sheep men keep their flocks.

# YOLO COUNTY,

Some 80 miles north and cost from San Francisco, is one of the finest agricultural sections in all Cali formia, the great Sagramento river furning its en-tire eastern boundary. Salano lies immediately south, and Colust hounds it on the morth, while the symmit of the Conet Range of mountains, with Lake and Napa countries on the west, form its western line. This is a prosporous and beautiful county, with an area of 650'000 neres. The larger portion occupies one of the most fertile sections the Sacramento valley, which extends west from the river indistance of from 20 to 25 miles, reaching to the foothills of the Coast Range. Cache creek which takes its head in Clear lake, in bake county, enters Yido county in the northwest corner, and takes its course in a southcostern direction, diagnally through the county; as it enters Yola it cuts through the Coost Range, forming a rocky canyon for several miles, where the mountains widen out into what is known as Capay valley, a heartiful country, of nearly the size of Napa valley. On cither side of Cache creek the sail is excellent for grain or fruit, this stream farmshing the very best facilities for irrigation. The month of the valley is some sixteen miles west of Woodhand, the county seat. Land is yet quite reasonable in price in this vicinity. The country all along the eastern slope of the Coast Range, known as foothills, has numerous little valleys, which is the choicest fruit in the State, while the mountain ranges are usually held by possessory title. The population, in 1880 was 11,051, and at present would reach 11,500. Grapes, for raisins and wine, are extensively cultivated. Some of the finest raisins in the San Francisca market come from Yolo county, The shipping facilities of the county are excellent; first, the Sacramento river, along the eastern side of the county, where boots ply up and down

Railcoads run in different directions. The Califurnia Pacific extends across the south-eastern per. tion of the county, with a limited to Davisville, morth, to Knight's Landing on the Sucremental the main line runs morth through the county, by way of Woodland, up into Colner. Along the western partion of the county is the Vuen Vulley & Clear Lake railroad, now completed from Elmira, by way of Vacaville and Winters, to Madson, the present terminus. This road will doubtless be extended to Capay calley, with the intention of going up that valley into Lake county. Thus it will be seen that Yokens very controlly located.

Woodloud,
The county scat, is beautifully saturated on a loyel The county series, as beautinny strategy and plain, at the junction of the California Pacific and Knight's Landing branch. The town is regularly laid off, with broad streets, which run at right angles. The place is well supplied with artesian water. The second largest town in the county is Whites.

In the south-western portion of the county, where the earliest fruits came from. The hard is all line farming hard around here, Winters being just on the edge of the foothills. The town has a populathe edge of the nothins. The town has a popula-tion of some 500, supported by agriculture and frint culture, the prachate hough albitiqued to San Francisco, and communds the highest perces, on account of being early in the senson.

# Harrier life,

bean the line of railroad between San Francisco and Sacramento, and at the junction of the real north. At present the trave has a population of 400. Land in this vicinity is the finest kind of on 400. Land in this vestally is the three kind of sandy loane and sodimentary deposit from Putah ereck. Here we some of the finest orchards in the

ertial in a limit level country, about four miles from the foothills. Langville is situated in the lower end of the humitiful Capay valley. Knight's Landing is on the Sucramente river, and is the ter-minus of the read from Woodland.

Carbythe

Has some 250 inhibitants. There are a manber of smaller towns and precincts in the county, such as Buckeyo, Black's, Cottonwood Canyon, Capav, Charleslorg, Dunigan, Eureko, Kuterprise, Jefferson, Putuli, Pine Grace, Willow Slough, and Yolo,

# YUBA COUNTY,

In the central part of the north half of California lies partly in the Sacramento calley, and extends far up in the western slape of the great Sierras. The adjacent countries are Butte, on the north, Sierm and Nevada, on the cast, and Placer and Sutter on the south and west. Yulu county has an area of 396,440 acres, and is irregular in shape, keing some 50 miles long in a north-easterly to a south-westerly direction, and from 15 to 22 miles The Peather river forms the homolary line on the west, while the Yuha traverses the county from the north-cost to the south-west, forming a junction with the Feather at Marysville. The Valor giver was one of the richest in the State. and scores of worked-out mining-bars tostify to th prosperity that once reigned there. Extensive bydrunke mining has been done from Timburton to Mooney Plat, where hills several hundred feet in height have been winded away, and the bedruck haid have for miles around. Signed Flat, New York Flat, Camptionville, Oak valley, and many other places have been worked on a large scale by this process; so much so, as to change the entire surface of the country, both in the mountain unining region and the rich river holdon lands of the valley

Ynlar county or but partially dependent upon its agricultural resources, and cannot be classed as my agricultural county. Less than one third of the soil is susceptible of preditible cultivation; the remainder is decoted to grazing, and is rated as tim-ber and numeral hunds. The western portion of the county lies in the calley, and is chiefly devoted to wheat, larrley, frint and vegetable farming, Large quantities of potantes are raised along the Bear liver lettern, in the southern parties of the county. The ravinges conunitted on the fertile hottom lands, by the sands washed down from the hydraulic mines, have been great.

besides many private levees, at a total expense of more than \$500,000. There are, at present, four steam saw-mills in the county, which sawed 1,140. 000 feet of hunter last year, principally yellow and sugar pine. From the lost information we could get, while among the people of Yula county a short time ago, we estimate the standing saw time ber at 13,000,000 feet.

## Microsyllle.

Instanted at the junction of the Yuka and Feather rivers, and has always been the seat of justice The commondons, substantial brick business blocks, the next frame bindings, and the locurtful sinded streets all give the city an appear-ume of laying been long established. Few towns in Culifornia laive suffered more from coullagra-tion and flowle than Marysville. It has at present a white paparlation of 5,000.

Whenthouse

The second town in size, is some twelve miles south from Marysville, on the same line of the railroad. The place is of lost recent growth, having been stab ished in 1866, at the completion of the rail cond. It is a shipping point for grain, hay, vegetables, potatoes, etc. The town is the center rous. It is a control to the town is the center of the finest agricultural portion of the county. Wheatland has a population of 650.

# Cuanques life,

Up in the mountains, in the eastern part of the county, is an old mining town, which had its rise with the opening of the mines in 1852. This place has been the seene of large hydraulic operations described elsewhere. The town still enjoys a fair local trade, and possesses several stores and a good hotel, where all stages stop. The town has a papulation of about 300,

# Sugartistille.

Is licented on the upper Yulia, eighteen miles above Marysville. This has been the scene of the most extensive hydroulic mining in the county but like most mining towns in California, it is on the decline. The other towns in the county are Strawberry Vidley, Brownsville, Greenville, Timlajetno, Sucker Flat, Rose Bar, etc. Yuba county had a population of 11,270 m 1880, and it has about the same at the present writing.

# A WONDERFUL INCREASE

The Fernilate, Humbolit county Enterprise snys: One throusand three hundred husbels of grain were taken from a ranch near Hydesville, this season, in excess of the entire trip Levees have been very expensive to the citizens of Yular county. They have been built along the Yular feather and Bear rivers by the county, they have been built along the Yular Feather and Bear rivers by the county, orease in our grain product.



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\$750,000. Capital, \$1,300,000. Assets.



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#### SULTANA GRAPES.

A writer in the Weekly Call has the following: The coming grape, considering the demand for cuttings last year, appears to be the Sultana, the well-known seedless variety from the Levant. From being little known five years ago, it has come suddenly into prominence for raisins and wine, until the plantings this season will be limited only by the supply of cuttings. It well deserves its general popplarity. It not only makes one of the most delicious seedless raisius, but a white wine of delicate and superior flavor, besides which, in favored localities it has proved itself to be auenormous bearer. How it ever got the reputation of being a shy hearer is a mystery to those who are familiar with its culture in Yolo

Six years ago R. B. Blowers, the well-known misin-grower of Woodland, planted several acres with cuttings of this variety putting them CALIFORNIA FLOUR.

California ships a large quantity of her flour to Texus, and Butte county furnishes the largest portion of it. The Gridley and Oroville mills have shipped thousands of sacks Messrs, Hibbard & Shand, owners of the California Steam Flouring Mills in this city, will shortly have completed arrangements for sending nearly all their flour to Texas. That State has formerly received its flour from Minnesota, but since the completion of the Southern Pacific Railroad, she is drawing upon the surplus flour of California, because of a better quality than the flour of the Northwestern States,-Butte Record.

#### THE MUSCAT VINE.

Four years ago, says the Riverside Press, Choffey purchased one and two year old Muscat vines from a neighbor who had lest confidence in the raisis grape. He plunted 629 and a quarter acres



MOUNT OF THE HOLY CROSS, COLORADO.

in widely spart, or at the rate of 515 to the acre. The first crop was produced the third year, and the yield was five tons to the nere; the second crop was at the rate of ten tons, the crop of the fifth year was twelve toas, and the past season, the sixth from planting, the vines produced the enormous crop of seventeen tons per acre. It is doubtful if this yield was ever before equalled in this State with any variety. It should be stated that Mr. Blower's soil is a rich, strong loam of great depth, is coplausly irrigated, and receives the best culture intelligent management can hestow. Owing to the untimely rains, which interfered with raisin working, the crop was suld to a wine-maker (who found the secha-rine strongth to be 23 per cout), at \$30 per ton, just double the price received for Museutel said for the same purpose. Mr. Blowers has already received orders for 140,000 entings, all the wood his vineyard has produced. Most of them go to the southern part of the State, Los Augeles county alone having ordered 100,000.

these vines. The first season after planting be pinked the crop, dried the same and sold the raisin for \$50; the second season he sold the crop on the vines for \$150; the third year he sold his crap in the same way for \$200, and this year he has again sold his grapes on the vine for \$250. For four years be has sold his crops for a total of \$650. The vines originally cost him about \$35; he has cultivated the same four years, and the liftle vineyard now pays him a set income on a valuation of about \$1,800 per acre.

We call special attention to the Llewellya Steam Coudenser Oo,'s advertisement, elsewhere in this journal, whose litter-heaters and condensers are now in successful operation in the principal manufacturing establishmants throughout our city and country. Judging from the hundreds of testimannals, stating that they save from 25 to 50 per cent, in fuel and water, besides keeping the steam boilers perfectly clean, without the mid of chemicals, This must be one of the greatest inventious of the age.;

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Girard F. & M. 108. Co.......Philadelphila, \$1,101,313-26.

La Confiance Ins. Co...... Parls, France, \$6,679,565.

New Orleans Ins. Ass'n... ....New Orleans, \$573,216.

Standard Fire Office ... London, England, \$1,300,000,

St. Paul P. & M. Ins. Co. .. St. Paul, Minn., \$837,893.43.

The Fire ins. Ass'n (Limited), London, Eng., \$1,342,673 14.

Teutonia Ins. Co..... ... New Orleans, \$401,753 71.

Watertown lus. Co ..... Watertown, N. Y., \$1,006,656 23.

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The Loudon and Provincial Marine Insur-\$6,278,362.

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BISHOP'S ECONOMICAL MINING PUMP APPARATUS.

Which does nivery with Combinous Possip Rods, V Bobs and 1 Properties squally well in bats below a conting of deflection in edition very line for which free, upon application.

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BROAD GAUGE.

## Winter Arrangement.

Commencing Sunday, Oct. 22nd. 1882, And until further notice, Passenger Trains will leave from, and arrive at Son Francisco Passenger Deput (Townsend St., between 3d and 4th streets) as follows:

6:80 A. M.   6:30 A. M.   3:30 P. M.   3:30 P. M.   8:30 A. M.   10:40	LEAVE 8. F.	DESTINATION.	ARRIVE H. F.
830 A. M.   Saula Clara, San Jose and   *10.02 A. M.   430 P. M.   Principal Way Stations   632 P. M.   630 P. M.   (Giroy, Pajaro, Gastrovtile.   *10.02 A. M.   Giroy, Pajaro, Gastrovtile.   *10.02 A. M.   (Giroy, Pajaro, Gastrovtile.   *10.02 A. M.	† 6:50 A. M.* 8:30 A. M. 10:10 A. M. 3:30 P. M. 4:30 P. M.	and Menlo Park	6:40 A. M. 9:05 A. M. *10:02 A. M. 3:37 P. M. † 0:04 P. M. 6:02 P. M.
1030 A. M.   Sail Monterey.   0.92 p. M.   0.930 p. M.   0.900 p.   0.900 p.   0.900 p.   0.900 p.   0.900 p.   0.900 p.   0.9	8(3l) A. M. 10:40 A. M. • 3:30 P. M.	. Saula Ciara, San Jose and	9:05 A. M. *10:02 A. M. 3:37 P. M 6:02 P. M
10:40 A. M.   Watsonwille, Aptos, Soquel   6:02 P. M.   -3:30 P. M.   Salting, Solutial and Way   6:02 P. M.   Salting, Solutial and Way   6:02 P. M.   Salting, Solutian   Company   6:02 P. M.   Salting   Company   6:02 P. M.   Salting   Company   Compan		Monterey	0:02 P. M
10:40 a. M. Saimas, Solutian and Way 5:002 P. M	10:40 A. M.	( Watsonville, Aptos, Soquel. )	6:02 P. M
		Salinas, Solutad and Way	0:02 P. M

\*Samlays excepted, ISnudays only (Sportmen's Train).

Stage connections are made with the 10:40 A. M. Train, except Pescadero Stages via San Mateo, which con-nect with 8:30 A. M. Train.

#### EXCURSION TICKETS

Ticket Offices.—Passenger Deput, Townsend street, and No. 2 New Montgomery street, Palace Hotel, A. C. BASSETT, H. R. JUDAH, Superintendent. Asst. Pass. & Tkt. Agt.

ms, etc., feaves San Francisco dally via Oakland Ferry, foot of Market street, at 9:30 a. M.

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LEAVE WHARF CORNER OF First and Brannan Streets, at YOKOHAMA & HONGKONG

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Excursion Tickets to Yokohama and Re-turn at Reduced Rates.

Cahin plans on exhibition and passage tickets for nic at C. P. R. R. Co.'s General Offices, Room 74, Corner Fourth and Townsend Streets.

FOR PREIGHT apply to GEO. II, RICE, Prelight Agent, at the Pacific Mail Steamship Com-pany's Wharf, or at No. 203 Market street, Union Block.

T. H. GOODMAN,

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# COMMERCIAL **INSURANCE COMPANY**

OF CALIFORNIA.

Fire and Marine Insurance

Capital, paid in full, - \$200,000.00

Assets, Dec. 31, 1881, \$377,457.82

Losses Paid Since Company was Organized nearly, \$800,000.

THE QUAKER DAIRY

One of the most inviting and attractive dining stablishments in San Francisco, is known by the name which heads this article. It is on the first fluor of a large, three-story, brick building, located on Sutter street, No. 114. It is most advantagemusly situated, being close to the Pacific Transfer Company, within a stone's throw of Montgomery street, of easy access to the principal hotels and places of amusement. It is amply supplied with all of the modern appointments usually found in similar establishments in Eastern cities. The runn is spacinus, affording ample space for the tables and all of the necessary furniture. The table rovand off the accessary furniture. The construc-ers are always close and white as spatiess snow. Every dish served is of the very hest quality to be found in our markets. The inter is the sweatest and purest that can be precured from the hest dairy furns in the State. The colored waiters employed at this place are dressed neatly and tidily, which corresponds with the general attract-tiveness observable in all of the surroundings of this must inviting dining hall. The Quaker Dairy is named unit denducted by E. R. Perrin and J. S. Daniels. These gentlemen have had a large experionce, extending over a period of nearly a third of a century, in catering to the tastes of the public, in this line of business. Although this dininghouse has only been in operation a short time, it has, slrendy, become widely and favorably known; and we trust that the day is not remote when its reputation will become as world-wide as that of the famous Delmonice in New York City

The walls of the Quaker Dairy establishment are embellished with ougravings, illustrative of cural

BUTCHINSON & MANN'S UNDERWRIT-ING AGENCY.

It has often been remarked, by those who have given the subject careful attention, that there is no position in the commercial world which requires established integ-rity, executive ability, and financial skill more than the conduct of an insurance company in the management of its lushers. The position occupied by our insurance interests, their soundness and strength, are chanents of interests, their soundness and strength, are elements of as great importance as similar considerations in regard to one hashing institutions. It may safely be said that the universe of property in San Francisco and all of the towns of any importance in the Pacific States and Territories have within their mach the means of insurance against the risk of fire, fully equid in security to those employed by the inhabitants of Europe and the content of the property against the risk of fire, fully equid in security to those enjoyed by the inhabitants of Europe and the more settled parks of the United States. The most with points that call for consideration are absolute security, and the certainty of obtaining prompt and fair sattlements in the event of disasters occurring, against which precautions are taken. When persons, possessing these faculties, baving been tried, by long intercourse with a case munity, tender their services and the good offices of the companies they represent, they should be rewarded for their faightly to the great treat renamitted to their, by an extended patronage. Without intending to latter, or even compilment, in the slightest degree, we think that these remarks justly apply to the long established, welleven compilment, in the slightest degree, we think that these remarks justly apply to the long established, well-known, and highly-esteemed firm of Hutchinson & Mann. Its advance, during a period of sometiming over twelve years, from a sumil beginning to a most limiter lant business, in point of capital, assets, and reliability, in the themanic world, is a fact that speaks for itself. The combined capital and assets represented by this firm, amount to the enormous sum of \$42,404,702,19, all of which is safely pledged as a safeguard against disasters to which we, in common with sit communit-ties, are exposed. An institution having such a vas put of money at its command, with which to



**DUICK TIME AND CHEAP FARES** 

FROM

AUSTRALASIA, CHINA & JAPAN.

NEW YORK

LIVERPOOL

THE GREAT TRANS-CONTINENTAL ALL-RAIL ROUTE

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RAILROAD CONNECTING WITH

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# SOUTHERN PAGIFIC RAILROAD

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THROUGH EXPRESS TRAINS

Leave San Francisco Dally,

Making prompt connection with the several Rativa Lines in the Eastern States, for all the Cities of the

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England, France,

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# Silver Palace Sleeping Coaches,

Second to Name in the World.

Are run daily between SAN FRANCISCO and NET YORK, and interacollate points. These brawing book Care by day, and Sheeping there by night, are incooled for conduct and convolutement in the Passenger withese runts—condulating the elogatics of a private partial and accommodations pertaining it a well-furned obamber, with contortable conches, clean bodding, if A competent Purter accompanies each Car, to altest to the wants of our Patrons.

Oldblires under Twedre years of age, Half Faix Under Five years of age, Free.

IIII prounds of Hoggingo per full Passenge from 511 prounds of Hogginge per built far songer, free.

# PRINCIPAL TICKET OFFICE

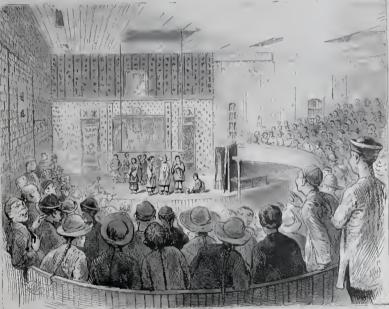
#### OAKLAND FERRY LANDING

First of Market Steast, San Francisco.

Where paneagers, adding an person, can seem choice? routes and shopping car accommodations. A. N. TOWNE. T. H. HODDMAN.
Hung-depotent and dust. Gon. Pass. & Ticket M

SAN PHANCISCO, CAL-

Bubseribe for the Resources of Campounta.



#### INTERIOR OF CHINESE THEATER, SAN FRANCISCO.

and farm scenery, cattle, etc., in place of coarse and indecent dauls, to coften seen in dining rooms and other public places. This is certainly a feature that adds not a little to the general attractiveness of the place, and will contribute, in no small degree, towards drawing people of taste and culture. There is no bur, where liquors, of any kind, are sold, connected with this house. There thing that is worthy of special mention. We refer to the milk used at the Quaker Dairy. It is wilk in overy some of the word cowe milk, without adulteration. The hill of fare discloses the fact that meals can be had at very law prices, considering that every dish is not only carefully prepared, but also of the very host quality which can possibly be procured. For instance, our can get a plate of the very nicest kind of paneakos, with genuine maple symp and fresh ranch butter, for twenty costs. Everything known in the colinmry department, that can be had, is found at this restaurant.

Mesors, Perrin and Daniels deserve credit for Mesors, Perrin and Daniels deservate credit for having opened this large and everyway desirable during room in our midst; and we most unhas-itatingly recommond all visitors to our city who are in the habit of "lamarding around" to give the Quaker Dairy a call. Mr. Perrin, without ex-ception, is the last general enterer in San Fran-cisco, and knows how to tickle the palate of the greatest spherice, by his superh cacking.

No. 405 California Street, S. F.

transact business, offers advantages of the most amb canance offsiness, ourse advantages of the most arb-stantial character, and is a valuable adjunct to the con-nertial, more author, and industrial interests of the Coast. In addition to their fire insurance business, Messers linterinseen & Mann are agents for an English and a Franch mesher than

Mesors, Ilitchinson & Mann are agents for an English and a French marine insurance coupany, each of which is of the very highest standing, and offers, in every respect, the fuffest guarantee to shippers.

The finn of Hutchinson & Mann, for the prompt and business-like manner in which they always love, and still condition to never their addigations, and also for the skill and integrity of their aids adjusters, his won a need divisible reputation for hunorable and myright dealing. The home of thickingon & Mann is known as one of the most reliable hearance agencies upon the Pacific Coast. Their facilities are practically inflimited, and we congruintly to the firm upon that well-Pacific Coast. Their facilities are practically unlimited, and we congrutulate the firm upon their wellmerical success.

### CAGIFORNIA LUMBER EXCUANGES

Statement of receipts of lumber at San Premitses dur-

ing the year 1882
Redicout: rough, 49,694,989 feet, rough clear, 9,551,
602; stressed, 38,778,395; half-finch dressed, 97,991, halffied stiling, 237,856; half-finch batters, 218,859; roughplokets, 1,247,841; dressed, 450,168; total, 97,765,334 feet.
Pine, rough, 117,685,612; dressed, 10,384,698; teneing,
7,949,399; pickets, 112,97; total, 111,989,809,
Sprace, rough, 20,410,573; dressed, 769,217; total,
11,747,760 feet.

21,479,700 feet.
Rough colar, 3,264,050; herriwood, 408,034; total unrular of feet for the year, 201,008,814
Sundries: shingles, 102,102,000; inthe, 33,881,300; shinkes, 10,289,000; ship knees, 1,317; price, Hined feet, 688,614; red wood parks, 650,885; redicad thes, rift, 2,636,107; broom lamiles, 609,300; wood sites, 270,250; Someleh colar loge, 3,008; apare, (lineal feet), 62,532, poles, (lineal feet), 62,538; A. Thanke, Sacretary, S A. Thaben, Scoretory.

# STOVES

For Cooking, Parlors, Offices, Halls, Bed-Rooms, Churches, Stores, Etc.

THE LARGEST STOCK AND GREATEST VARIETY WEST OF THE ROCKY MOUNTAINS.

Over 500 Different Sizes. Styles and Patterns to Select from.

PLAIN, JAPANNED AND STAMPED

# IINWARE

W. W. MONTAGUE & CO.

110, 112, 114, 116 and 118 Battery St



# GALENA-SILVER and COPPER ORES.

THE PACIFIC WATER JACKET SMELT-ERS embrace many fratures that are entirely new and of great practical utility, which are covered by letters patent. No other furnaces run compare with these for durality and it removes for many

MORE THAN SIXTY OF THEM ARE NOW RUNNING ON THE PACIFIC COAST,
Giving results never before obtained as regards continuous running, economy of four,
grade and quality of builton produced. We are prepared to account to by fucls the chima here ininde.

# THESE SMELTERS ARE SHIPPED IN A

COMPLETE STAYE,
Requiring no brick or stone work, except
that for the crucible, thus saving great expense and loss of time in construction.

COMPLETE SMELTING PLANTS MADE
TO ORDER.
Of any capacity, and with all the improvements that experience has suggested as valuable in this class of machinery.

# SKILLED AND EXPERIENCED SMELT-ERS FURNISHED.

When desired, to compline indices and to susperintend construction and recentling of formaces. Estimates given upon application.

Send for Grentar.

RANKIN, BRAYTON & CO., Pacific Iron Works, San Francisco

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10 POST STREET,

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# MILITARY GOODS,

SOCIETY REGALIA,

Lodge Supplies, Flags, Banners, Etc.

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#### BANK NEVADA THE \_ OF----

#### SAN FRANCISCO.

Paid Up Capital ----- \$3,000,000 Reserve (U. S. Bonds) --- 3,500 000

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SSUES COMMERCIAL AND TRAVELERS' Buys and sells Exchange and Telegraphic Transfers

This Bank has Special Facilities for Beal. lug in Bullion.

SAN FRANCISCO California

There is no county in the State of California, considering its area, that contains the excellent advantages that does this little peninsular county of San Matco. When advantages, we mean to embrace therein its splendid climate, its fertile soil, and above all its many charming spots for suburban homes, For the reason that Sau Matco county adjoins San Francisco, and for many years the two were one, the idea has gone abroad that on account of our nearness to the great metropolis, that we cannot be prosperous; that we are nothing but a little sinsignificant side-show to San Francisco. There are but comparatively few outside of this county that understand and appreciate the great and extensive resources that are constantly nurtured and propagated in our midst. During the last few years it has become understood that no fluer soil can be found in the State for vine-growing than lies |



BIG TREES.

on the eastern slopes of the mountain range that horders this valley on the west. S. L. Jones of San Francisco, has been fur-seeing enough to understand the practiculality of cultivating a vineyard in that locality, and has spared no expense in establishing one of the finest vineyards, of its size, in the State. His efforts in this direction have been rewarded by unbounded success. Why should not this venture be succeeded by many others of the same nature. There is no searcity of land equally as fertile, and as conveniently situated as that owned by Mr. Jones.

There is no question but that in the near future the cultivation of the vine in California will lend all other industries, and it will not be long ere the wines and brandies manufactured in California will be first in the murkets of the world. Sau Mateo county, though small, is destinued to receive her share of the woulth that is sure to be derived from this source.—
San Maleo Times and Guzelle.

#### A RUSSIAN RIVER FARM.

The following, taken from the Russian river Flag, shows what average farm-lands will produce in California: A five-acre apple orchard, twenty years old, at John N. Bailhache's ranch, southeast of town, yielded this year \$1,000 worth of shipping fruit, ordinary varieties. Mr. Bailbache has an elegant home place. The residence is, no doubt, the finest in northern Sonoma, built on the bank of Russian river, near the base of Monut Sotoyome, at the site of the first bouses contructed in the valley by the founder of the Sotoyome grant in 1844. The adobe walls of the original building are still part of the new residence built by Mr. Bailhache a few years ago. The ranch consists of about 500 acres, of which five, as we have stated above, are occupied by a twenty-year-old apple orchard; five more by a three-year old orchard of peaches and plans, which will yield when five years old, at present prices, \$300 au acre, and from which he this ear reaped a large corn crop from between the rows; fifteen are in alfalfa, one of the bestpaying crops in the valley; sixty-five are in foreign vines, two years old next apring, and which will yield, when five years old, at present prices, fully \$150 per acre, and more as they grow older; and from which he has resped lurge crops of corn and heans from between the rows. There is some hay land and 400 acres of pasture, on which roun 300 head of graded sheep, besides sundry head of horses and cows. sheep never require feeding and pay about two dollars net per head per annum. Nearly all the work of this place last year was done by Mr. Bailhache and three of his sous.

#### VITALITY OF THE GRANGE,

From the Los Angeles Times of recent date we take the following:

The orange tree one would naturally infer to be very tender and requiring very careful treatment and bundling. The fact is, however, that it is one of the most hardy of trees, and will often live through the most trying ordeals and survive the most careless handling, to which almost any other tree would succumb. Dr. A F. White's fine orchard, on Main street, affords two striking instances of its surviving bard treatment; of the careless treatment you will have to go further to learn, for you can find no instance of it there. One of his trees, some two years ago, was stripped of its bark, just under the surface of the ground, for several inches around the entire circumference of the tire, leaving not a sbred remaining. The dainage could not be seen from the surface, and it was not discovered until the tree showed signs of disease. Investigating for a cause, the wound was discovered. It was bound up and the top prinned buck so as not to strain its energies, and now that tree has a good crop of oranges, almost as fine as can be found in the orchard. Another case of hardihood in the same orchard is where a mischievous boy, some four or five years ugo, perhaps more, as it was long before the elector came into possession of the property, completely girled a limb of an orange tree with a new knife be was testing. The limb still lives, and is now full of oranges, and has borne every year since it was girdled, though the wound has not healed, and a space of two inches of that limb is apparently dead as it ever can be; and not only that, but it is cracked almost entirely through at the same place, caused by the weight of the fruit it has

# CHOICE!

EQUAL TO ANY IN THE CHUNTHY, Every Ham Branded and Guarnateon,

2. We successfully invite the attention of the City Trade to one UNCOVERED Hums of the above brain, nucleated in one on this closes, and comparing (average with the lost braind in any market—combining excellarge and necessary.

MERRY, FAULL & CO., Provision Packers, and Dealers in Meat Products of all Descriptions,

125 California Street

#### CALIFORNIA BRANDIES,

#### Some Plain Truths poul Comportsons

The San Gabriel valley, Los Angeles county, has become noted for the fine quality of grape brandy produced from grapes grown upon soil peculiarly adapted to their perfect production, which imparts a posuliar and delightful flavor, remarked by all who taste it. On the mouthern slope of the Sierra Madre mountains, where is located the Santa Anlia vineyard, there seems to be included as the same and a regard to be another to be included when and brandy.

The demand for the Bahlwin brandy, distilled on the

Santa Anita, having increased to an extent that brings it into competition with other productions, certain parties, fearing comparison, having endrayored to parties, fearing comparison, having endeavored to create a prejudice against the Baldwin brandy, singling it out and problishing manufactured tables purpuring to be a correct analysis—bow correct can be judged by

Mr. Baldwin, in selecting a competent chemist to as-certain the facis regarding his brandy, decided upon applying to one whose position and reputation would leave no doubt as to bis disinterestedness; therefore, the selected Protessor Occar Oldinerg, or St. Louis, alli-sonri, who is engaged in revising the United States Disensary. Let the correspondence speak for Itself.

Let the correspondence speak for Itself,

SIN FRANCISCO, Cal. Juno I, 1882.

Prov. OSCAN OLDERO, Chemist, St. Louis, Mo.Dear Sir. I have shipped to your adultress by express the
samples of grape beamly produced at Santa Antin vinoyard, San Grabele visiley, California, of whoteges as
tellows—viz., 70, 77, 78, 79, 780, and would thank you
to make a careful; aid impartial analysis of the same
and send mo the result with a view to determine the
exact quality of the braindy.

I also inclose a table purporting to be an analysis of
right samples of brainly by J. J. Hensdale, which I
would thank you to go over carefully and write me
your upfinion of the table and subject matter.

Nature of the Arcs. Lines of the	Heavy - Fusel - cribia d 20 Pcz dd Vc
	As per- of Bu  t. Nearly title.  ce.  End: by Ent.  ce. ce. ce. ce. ce. ce. ce. ce. ce. c

N. B. - The blue matters and heavy alcohols were obtained in every instance by operating upon 50 c. c. of the brainly twice over: firstly, on the sample, and secondly, after a portion kind been filtered through charcoal to remove coloring matters. Both were then distilled separately in an apparatus specially arrunged so us to obtain the essential offs and heavy alcohols in bottom et a receiver graduated in iun divisions. In every instance the top of the bine matter was sharply defined, so much so that the pure spirit floated above it. and for days afterwards showed no lightnation to sink and for days atterwards showed no highination to sink or above ht. It is not to be understood that the figures given indicate the percentages of fusel oil in the above samples. But they indicate to some extent the relative inpurities of the different samples. Nagleo Brandy showing a little more than a trace.—John J. Bleasdale.

The repty was as follows:

Sr. Louie, Mo., July 17, 1882 My DEAH Sin: Your lotter is received, and the Inclosure is berewith returned.

The great analyst (1 see be is a "D. D. analyst") is a queer genius. No chemist can well examine his table without a pretty broad smile (no chemist would ever make such a stat ment if he were quite sober and careful of his reputation, not to mention minor preuliarities). Who would determine "residues in the state of thick syrup? Who would get 1.273 per cent dry resultie {1] trom 1.428 thick syrup, in one case, and 1.0621 (undoubledly correct to the fourth decimal!) per cent dry restine trom 2.92 per cent is another rase? Who would find such nice shades of difference in the character of residues as our "I'D. analyst," who in one rase gets "burnt sugar." in another case "caramet truit extract, truit syrup, flavoring, bitter substance," (i.e., Who would fluit flavoring a part of the residue? Who ever uses the terms "heavy sicohol" and "fusel oll" as syn-

613 MERCHANT STREET, SAN FRANCISCO, Cal. 7th December, 1882

Memorandinii of examination of a smopile of brainty said to represent—harrels, broughs by Mr.—ot

1. Very achi to test papers.

2. Color-Indistinct yellow.
3 Strongth-93,580 by bulance-86,18 British proof-

Dry restdue -0.195 per cent.

4 Dry residue—0.199 per cent.
5. Nature of dry residue and coloring matter—burnt
sugar (caramel) with tannin, ar something like it, trom
comilitium of the cask, probably.
6. Impurities shown by distillation—very much blue

matter, as had as any lever examined.

7. Coloring matter (precipitated by chloride of barlum) nearly black.

(Sgd.) JOHN J. BLEASDALE, D. D. F. G. S. Auglyst,

Lahoratohy of Orhanic Analysis, 13 Merchant st., San Francisco, Dec. 30, 1882.

Acide computed as sectic. 0.0189
Ethers computed as sectic. 0.195
Rishius fully dried, per cont. 0.195
Nather of the restone. Durul sugar and pitter fruit
extract.
Heavy alcohole and blue matter (final oil) [7]. These
were considerably in excess.
Signed: John J Bekarder, D. D.

N. B. -This is a genuine wine brainly-not made out of pounded or lees. Signed, J. J. B.



#### CALIFORMIA REDWOODS.

unymous terms? What obendst uses the term Oldne matter?" What is oblic matter?" It must be a new thing in quantitative analysis to estimate "heavy alcohol" (1) as blue matter (11). To find "25 per cost of fusel oil" in brandy is charoling. To be sure it would be next to impossible for me to swallow a very small "toddy" made with brandy containing even I per cent of fusel oil, but linere is no teiling what a Cullfor-nia "D. D. analyat" might do. As an afferthought, lest prople should read his statement literally and fail to understand it otherwise than it is written, our "D. D." puts in an "N. B." distinctly stating that "It is not to be understood that the figures given indicate what be says in the table that they do indicate, but that they indicate to some extent the relative inpurities," etc. I am afraid our D.D. snalyst is "to some extent" remancing. But enough of raillery. Serlonaly, oothing ledemonstrated by this table, except that it is improbable on its face and does not describe either of the vintages of Baldwin's Pure Grape Brandh's in any particular. I have no heattation in pronouncing the Baldwin brandles very time and pure.

A carrell analysis of the samples received gave the following results: Alcholic strength, 43 8 per cent by weight, or 51.11 per cent by volume.

Readou (ctibily lamin), 0.11 per cent.

Total free acid (as secrete,) 0.08 per cent.

The sample examined was pile yellow, bad a specific gravity of 0.0931, and was tree from impurities.

The ethers present were those that are always, tound The effects present were mose that are always torining price of Brandy, and constitution which is known as the brandy bourped, findleading first class quality and partly. The flavor is excellent, and is o'diently the true natural dayor of the bourpard developed in the grape spirit by age, boing gradyd in the supplies exactly.

Private. Sin Frincisco, Gill, 613 Merchant street, 40th December, 1882

Hamy T. Carnott, Esq.—Decarding 18: The brandy, though by no means the best I have analyzed, is a genuine spirit troin who, and, but that respect, tar better spirit made from lees, butls, stalks, etc. The fault is this to some rather cardens nonnagement of the distillation. The thark matter which I showed you, and which does slightly dull the color, is nothing but a little truit extract, meant to sotion the spirit, and perfectly barm-less. The acid is deficient.

less. The Yours truly, (Signed)

Harry Carroll, being thely swoon, deposes and says that he is in the employ of E. J. Baldwin, at the Bah-win Hotel, San Francisco, Calibornia, that he took from one cash two samples of brauly, and on different dates delivered them in person to John J. Bhasalab, tor analysis, and that as the result of such an analysis, and he received the torogoing statements and sotter dated December 7th and December 10 th, 1883, all signed by the said John J. Bleasdate: (Signed) Hanny Carantte

Subscribed and sworn to before me this 6th day of mry, 1883. [Seal]

Noting Public, City and County of San Francisco.
It has never been the wish nor practice of Mr. Baid
win to try to injure the requisition of any California production, and, in placeholistics of any Casturina production, and, in placeholis his brainly on the barket he has not disrepresented other brandles nor created any false impressions regarding thou, but has always allowed his to stand upon the new moret, knowing that "mort will tell," and that underserved distraction of true natural davor of the bumput developed in the grape spirit hy age, boding graded in the samples exactly in proportion to their age.

ONOAH OLDINGTO, Ph. D.,

Chemist,
In order further to test the capabilitie at the "D.D" analyst, Mr. Baldwin son to him two different samples.

\*\*The bard that the lightly graving in popular with the baldwin to the republy graving in popular with the samples.

\*\*The bard that the republy graving in popular is welden to at the mrt. Baldwin to place it thirty and homesty on trial with the synchronic proof positive that he considers it superior in quality.

trom the same cask, and received in return the following:

E. J. COLEMAN, J. HENLY SMITH,
President. Vice-Presiden Vice-President

# PACIFIC TRANSFER COMPANY.

Chrcks and weighs Baggage at Hotels, Residences, and Office of the Company, Transfers Trunks, Merchandise and Parcels from une part of the City to another. Transfer Wagous deliver Baggage from att In-coming and to all Outgoing Trains and Boats.

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Carriage and Coach Tickets sold on all Trains and Boats, by the Messengers of the Transfer Company as Agents of the United Carriage Company.

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Within a mile and a half of the town of Orange, Price, \$1,000, or \$4,116 with water stock.

MAGNIFICENT ORANGE AND RAISIN Land; also adjacent tracts, at from \$35 to \$65 per acre, in tracts of 10 acres of 360 acres, or intermediate sizes.

This land has just been purchased at a low price, la à large body, for cash, and subdivided into tivelve tracts, and is offered for sale in lots to suit, at reason-

able rates, to give a quick return on the investment. Part of the land, priced at from \$35 to \$37,50 pct

#### HEAVILY WOODED,

And, on account of the abundance of the white water. can be Irrigated from the Santa Ana River directly and without the necessity of purchasing water stock which can be had at >11.15 per acro. The most succonstant V breynvillate irrigate only in winter

#### TERMS:

One half Cash; Balance, One and Two Years; Interest, S per cent, per annum,

All the land be in the Hamelin Southege de Smith Aro, which extends from the montainer these, awaining one hold of the waters of the Smith Ann Hame, at the mothern boundary, and contain ing the themselving settlements of Orongo, Smith Ann, and Portin City. The Danage taken take the mast promium wherever autieval, even at a Riverside Pair. Apply to

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No. 406 California Street, San Fran-

Oapital, paid up, Gold, - - \* \$300.000 00

Preminms, since organization, \$3,841,412 07 Losses, since organization, - - \$1,756,278 00 Assets, Jan. 1, 1882, - - - \$684,332 83 Surplus for Policy Holders, - 674,577 83 Income, 1881, - - - - 330,940 90 Reinsurance Reserve, - - 171,412 75 Net Surplus Over Everything. - 203,165 08

OFFICERS:

REST not, life is sweeping by, go and dare before you die, something nighty and sub a week in your own lown. It conquer time "Seff Everything new Captal not required. We will for nighty on extrything Many are making fortunes. Ladies make as much as num, and boys and grist make great pay. Reader, if you want business at which you can make great pay at the line, write for partirulars to H. Hallert & Co., Portland, Maine.



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\$72 A work made at home by the industrious, beys and garden who we have been a mid needed. We will start you. Min, women, beys and garden work for a work for no. Now is the time. You run work in apare time, or give your whole time to the business, No other business will pay, you nearly as will. No one can fail to make enormous pay, by engaging at once. Costly on til and terms free, Money made fast, easily and honerably. Address, There & Co., Augusta, Matho.



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RESPECTIBLY CALL ATTENTION TO

Farrign Perfumery, Colugnes, Seculed Totlel Sumps, Hair, Touth and Nutl Brushes, Counts, Huir DHs, Punnides, Face Pawders and Counciles, Sponges, Patent Medlelme, Mcc, Elr.

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A GENERAL ASSORTMENT OF ENGINEERS' FINDINGS



Sonker's Patent CELEBRATED

STEAM PUMP er The best and most durable in use. Also a variety of other

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For MINING and FARMING purposes Root's Blast Blowers, Par Ventilating Mues and for Smelting Works. HYDRAULIC PIPES AND NOZZLES,
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FIRE AND MARILLE

Paid-Up Capital, - \* \$750,000

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G. TOUCHARD, | N. G. KITTLE, Vire-President. 



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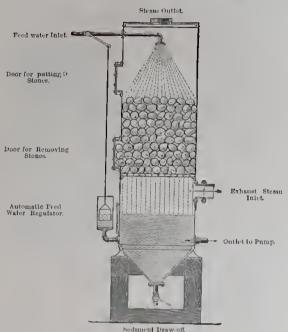
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For the Prevention and Removal of

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WITHOUT THE AID OF CHEMICALS.



Heats the water to holling point. Frees it from all chemical impurities. Saves from 30 to 50 per cent of water by combination. Prevents the formation of scale, and saves fully 25 per cent. In fuel,

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Manufactory, Columbia Foundry, 133 and 135 Beale Street.

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The "GIRLS" are a Four and Three-quarter Ineb Cigar. Made from Pure

NO DRUGS.

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ASSETS HELD IN THE UNITED STATES OVER \$750,000.

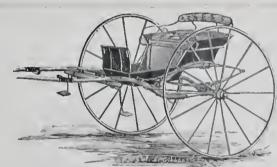
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HORTOP'S EUREKA CART.
Six Different Styles. The Rest Style Curt now In use. Easy Ridling, Si aple and versal, With Pole, Shafts or Canopy Top. Manufactured by the RUTHERFORD AGRICULTURAL WORKS, RUTHERFORD, NAFA COUNTY, CALIFORNIA,
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A PULL LINE OF French, German and English Cloths ALWAYS ON HAND.

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#### RUBBER HOSE.

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For Garden Purposes and Fire Departments.

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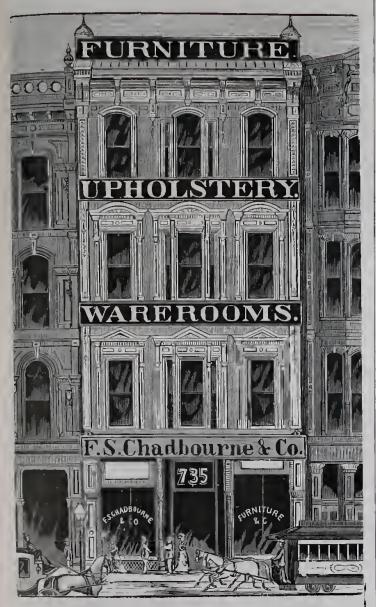
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IMPORTERS, MANUFACTURERS,

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# OF EVERY DESCRIPTION.

Chamber, Parlor, Library and Dining Suits.

IN AN IMMENSE VARIETY OF STYLE,

Book and Library Case Wardrobes, Ladies' Writing Desks, Turkish Easy and Lounging Chairs, Etc .-- Hotels and Private Residences Furnished .--- Designs Furnished and Estimates Given.

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WILL REMOVE TO 741, 743, 745 MARKET ST., CORNER FIRST AND YAMIILL STREETS, PORTLAND, OREGON

# THE BALDWIN!

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## THE LEADING HOTEL

OF SAN FRANCISCO, CALIFORNIA.

This Hotel was Completed and Opened in May, 1878, and is Conducted on the American Plan. Over \$3,500,000 having been expended by Mr. BALDWIN in its Construction and Furnishing, THE BALOWIN is the most Elegantly Appointed Hotel in the World. Situated on Market Street, at the Intersection of Powell and Eddy Streets, and fronting four principal streets in the business center, it is convenient of access to and from all quarters of the City. Eight lines of Street Cars pass its doors. Hotel Coaches and Carriages in walting at all Steamers and Railway Oepots, Tourists' Headquarters, Special Accommodations for Families and Large Parties.

Prices the Same as at other First-Class Hotels. \$2.50 to \$5.00 per Day.

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Large Tracts Subdivided and Sold at Auction or Private Sale,

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#### ALASKA TERRITORY.

Location - Area - Immense Minerat Resources - Volcanic Mountains-Forests of Timber-Climate.

Rivers – Fur · Seal, Salmon, Hal Herring, and Cod Fisheries. Hallbut.

# Inhabitants of Our North-western Country, Etc., Etc.

[By the Traveling Agent of THE RESOURCES]

It has been our mission, so far, to give true and faithful descriptions of California only, but as we are publishing an extra large edition of our Annual, we will step out of our ordinary course and give our readers a glimpse of the extreme northwestern portion of North America, viz., Alaska, which, until the last few years, has altracted but little attention from the public at large. and, indeed, the average citizen of the United States has given but little thought to this new Territory acquired by our government from the Russians, during the close of the year 1867, n consideration of the cash payment of \$7,250,000.

This purchase has proved a good investment for the United Stales Government. Il bas received from the Alaska Commercial Company, alone, since August, 1870, as taxes, \$3,819,143.24, or nearly one-half the cost of the purchase of the online Territory. The franchise has eight years yet to run company, by the time its lease expires, will have paid, in taxes, more than the original cost of the purchase by the Govern-ment. We think it would be well for our Government to make a few more like investments.

Instead of examining closely into the natural resources of this vast territory, ombracing some 500,000 square miles of land, we have been inclined to judge too barshly of it, without giving an impartial examination of its great wealth.

Alaska, instead of being a harren washas has been so often told us by political speakers, who condemn our government for the reckless expenditure of such a sum in her purchase, is, on the other hand, one of our most important acquisitions of new territory. By this acquisition, we ex-tend our possessions to like far-off region of the northwest, and the Esquimanx, in his native home, adds to the population of Now, that fifteen years have our country. quietly passed since this purchase was made, and to day everything is at peace and harmony with our new relations, let us turn over a page for a moment, and see what the future prospects are for the pioneer who seeks to open up new fields for the thrift and energy of the American in this compar-atively new world. Here, we have an

#### Immense Northerly Possession

Of more than 220,000,000 acres of land, a territory equal in size to Colurado, Nevada-New Mexico, Arizona and California com-When we come to contemplate the magnitude of such a vast northerly posses sion, it is but natural that our eyes should be turned to investigating its resources and future prospects, from a commercial point of view. Alaska extends over 1,400 miles along the coast. It includes a large portion of the Aleutian islands, a range islands skirting the peninsula and the main land sonthward to latitude 50 degs. 40 min., and it is more than 1,000 miles north from San Francisco, by sea.

#### Surface of the Country

The eastern portion of the mainland is a sterile plain, rising along the Arctic coastinto a table land. The Alaskan rauge of mountains extends through the peninsula, and the Coast Range forms a porthou of the castern boundary of its territory. waters of the Pacific wash its sonthern shores the Arctie occan bounds it on the north, while Behring's straits separates It from Asia on the west Adaska has many volcances, ten of which are known to be active. Mount 8t Ellas, the tallest peak on the American continent, is about 18,000 feet above the sea-level.

#### Climate.

Alaska has a much warmer climate than other regions in the same latitude on the easiern coast of our continent. The climate is not unlike that of Michigan or Maine in winter, and probably not as cold as Mionesota or Montana. Generally speaking the sunw falls from two to three fact on the level. The lee breaks up in the rivers and bays in the latter part of April. From May to October In the latter part of April. From May to October the weather is warm and pleasant. Last year the first frost was seen on Soptember 15th. The mild-ness of the olimate, in this high latitude, is attributed to the warm ocean current flowing north along the eastern count of Asia, through Behring's

ing development, there can be no doubt, and it depends upon the man of plack and American push and energy in develop this country. The energetic California uniner has already opened his eyes to the mining interests, which have every indication of being successfully carried on in this new held of hibblen tressure. Asule from the vast inhoral resources of geld, silver, from copper, lend, ambumil-bar, (which have already been discovered, and are known to exist in large quantities), Alsska presents other fields of equal, if and greater importance, for development. The most important of trade in fur-seal. The nationals are found only in Behring sea, on the Pribeloff group, composed of the two small islands of St. George and St. Paul, which are leased by the United States Government to the

#### Alaska Communicatal Company,

Whose headquarters are at No. 310 Sansome atreet, S.m Francisco. The lease is under certain conditions, which limit the taking of the far-seal to 100,000 a year, and is a source of oppositerable revenue to our Government. Under this restricttion, the young fomales, under a cortain age, are not allowed to be taken. The seal is increasing

menths, in all of the creeks, rivers, and inlets, These tish are so plentiful, at times, that the streams searcely afford sufficient passage for them to pass up in the spawatng season. harvest senson for the native, who catch them in large quicitities, with a scoop net, from the shore, or by the mid of a learn with untle driven in the end, with which they rake them out. These fish are split and dried in the sun, by the natives, for winter subsistence. There are three different species of the salmen in the waters of Alaska. The average fish will weigh from 10 to 50 pennils. The berger, commonly called the importal sulman, grow lo immense proportious. It has been authorita-tively stated that they have been caught weighing as much as 200 punnels.

Codfish, in large quantities, are found in all parts of the Territory along the see coast, but more especially along the coast of the Alaska peninsula, where they may be caught with book and line in 20 to 50 futhoms of water. This fish is so abundant that it is an easy matter to each several hundred an hour. Halibut are ulso found along the coast of the Alaska poninsula, but they are more aumorous in the deeper waters around the Shuningan islamls to the westward of Kodiak.

were brought to this city by the discoverers, and upon holog samayed, gave such satisfactory and so to lead to the organization of su exp dition, which sailed from San Francisco last spring In pursuit of this frastire. The expedition was a success, so far as the finding of the silver was conerned, but the weed was wrecked, with her cange of ore. These mines are situated in the merthen part of Alaska, about 30 miles from the coast of Galawin lany, on the north sule of North sound, The are buly crique out in a deprisoion in a raige all mountains, the highest of which is 2.869 for above the level of the sea, and is called, by the Esquirman, "Omitak."

One from this becokey, which is orgentiferous gahens, has been assayed, by our well-known, relable assayer, Thomas Price, and the result was \$121,23 silver and 83 per cent. lead. Ore from the same lo cality, which was assayed by the Selby Smelting Worhs, gave \$143.51 silver, and 80 per cent, lead, This would yield over \$200 per ton. The cost of smelting is not expensive, on account of the bles percentage of lead, which makes the reduction quite

#### Tholer

There are extensive forests of nine, code spruce, and other timber, which are bound to become valuable in time,

#### Sitki

The capital of the Territory, is situated on the wrst coust of Baranuff island, one of the largest and most westward of the Aluka archipelago. The population of Sitta at one time, during the Russiao rule, was upwards of 4,000. From six to eight ships were always in the harbor, and shipping was carried on quito extensively. The present population consists of about 300 Russians, less than 50 Americans, and about 1,000 to ians. There is no telegraphic communication with the ontaide world, the signal station here merelyserves to establish the arrage temperature and rainfall. There are five of these stations in Alaska. The report are forwarded to Washington, from Sitta every month. Observations made here from July, 1881, to July, 1882, show the manum temperature to have been 79 dees, abou z ro, minimum temperature 4 degs, about zero; rainfall, 88 inches; average ture for the entire year, 44 degs.

#### HOW TO MAKE MONEY IN BUSI NESS.

The merchanis of this city are not all of them as sharp in business matters as the might be. Agood many hold on to the old '49 idea of business, when immense profit were made. This is the era of cutting close and the man who does not entprofits close will find himself left behind, while bu shrewd competitors are taking away tride on all sides. A very apt illustration of the ness was afforded us the other day. the oldest houses in the city had a specia department, in which they sold compare tively few goods. A new man came in tite charge of the department, and, realmost the situation at a glance, advocated the conting down of profits. "Let ma," said be make our margin of profit at ten per calwhere it has pri viously been officen. principal thought that would untile for the Pacific Coast, although it suight auswer is the East. The young man was howered so persistent that he was allowed to try to by way of ex-periment, with an intumation that he would soon see the error of by The young man toukhold, the reduction of \$5 on every \$100 bill of goods at tracted customers, and the most desirable class, those who had money, or whose work

was as good as their money. The experiment didest prove a failure. Not a year bad clapsid befor where one article had been sold under the of regime, six were sold number the new, and now the whole \$60 were made, where previously not more than \$15 could be counted on. And so it is in a kinds of business. Close cutting unst be the order of the day in errier to extend and to keep our trade

A profit of eight per cent is sometimes more thin equal to one of twenty. For example, let a man with \$100 mrn it over once in the course of the man with \$300 mrn it overones in the contract of year, so that it makes, at twenty per cent, just twenty dollars. But janother takes eight per cent, and turns out his rapital once a mouth, he make twelve times \$3, or \$36 for the year, against be other \$3.50 m, among the \$3.50. ther's \$20, or more than four times as much-F. Journal of Commerce

#### REMIROLDT COAL AND COAL OIL

Humbeldl The Euroka Standard says: county offers a most inviting tichly for myest gation he'h for coul and cont oil. Her con fields and real reservoirs are whelly up Wantake the nuqualified assection that California has no more promising end and cad off field that Ilmihalit county passessed and for the operator who takes hold of the later, there will be a rich harvest. torrelind.



SCENE ON THE AMERICAN RIVER, CALIFORNIA.

rapidly in numbers, year by year, and is not exterminated, as has been the case on the South American coust, where any and all persons have been permitted to take seals without restriction. Alasha is to-day furnishing three-fourths of the fur seat of the whole world.

Next in importance is the valuable fur of the sea-Next in importance is the variable the of this sca-otter, which is found chiefly in the southern portion of the territory, slung the shores of the Alaska peninsula, from Cook's inlet to the west-ward, as far as the small island of Atton, near the This ranks among the most valuable Aslatle coast. fur in the market

fur in the market

On the land we find, in great infundance, the
otter, mink, wolverine, suble, mushrut, and also
the miose, reludeer, elk, bear, wolf, etc., all of
which are trapped and their skins, hides, and polts are sold by the natives to the minerous trading vessels visiting this section yearly, in pursuit of trade. Last, but by memeans least, come the

#### toraccon Ebdreries of Alaska,

Which are simply inexhaustible. Every stream and brook in its season, may to found literally allow with the fluny tribe, principally salmon, which are the linest spaces in the known world, and are much superior to those found in the waters of the Cohumble, Eol, or Sucramento rivers. They raits, to the Arctic ocean.

That Alaska has unlimited resources now await-

The herring of Alasha are equal to any, if not | superior to the Dutch herring or Potasse river herring, and are found to the westward of Unimak Poss of the Alaska pentusula and around the coast the islands of Onnalaska, Akatan and the lesser Islands of the Andrianaves group.

The Alaska mackerel, found principally around the island of Akutan to the west of Omnilaska, in great shandance, is a most delicious tish, and is superior to any Eastern muckerel we have in the market. This fish commands, in the San Francisco markets, among those win are not ignorant of their superior theor, a fancy price over the com-mon Eastern mackerel. This comprises the fishing Interests of Alaska, which will be opened to hu-

#### Whollog and Ivory Interests

In the more northern portion of Alushu, around and adjacent to Behring's simila, extensive every and whiling interests are carried on both by trailing vissels and the whiling fleats which leave San Francisco every spring, mut harter with the na-tions. This branch of hulnstry is ton well known to need a description,

#### Silver Miron.

Roports came to San Francisco, a few years ago, of what was termed a "mountain of silver," disgovered in northern Alaska. Specimens of this ore



J. P. H. WENTWORTH,
Rillion and Proprietor.

#### SAN FRANCISCO, FEBRUARY, 1883.

RSTABLISHED, 1870. Office—220 Sunsonn St., Hulleck Buliding.

Entered at the P. O. San Francisco.

#### \$2 PER ANNUM!

Six Months, \$1.25-Postage Paid. SINGLE COPIES, 20 CENTS.

ISSUED MONTHLY.

published Treasury reports, as this article is free from duly.

Of the above, San Francisco Imported 47,193 gallons,

Of the above, San Francisco Imported 47,193 gallons, valued al \$97,118, on which a thirty was paid of \$1 per gallon; or \$47,192. The value of plekled olives im-ported into San Francisco for the year was \$13,892. Great Britain Imports annually almost 5,000,000 gal-

Nearly all of this comes directly or indirectly from ports on the Mediterranean, and was produced on land, the rivers and streams of which flow into that

The Home of the Olive.

While the clive is found wild in a certain elimitic zone of the Himulaya mountains, and is supposed to

and other products, yield an annual revenue, nature has provided Southern Europe with a partial compen-sation for the loss of the malive forest," and adds; "Some does of the importance of the otive orelaris, may be formed from the fact that Sicily above, an island searcely exceeding 10,000 square unless in area, of which one-third, at least, is absolutely barren, insex-ported to the single port of Marseilles more than 2,000,-000 pounds weight of olive oil par your, for the last twenty years."

The Olive Zone.

Humboldt, in his work on the Geographical Distribution of Plants, says that the olive (Olea Europea) requires
a climate of a mean temperature for the year as wern
as 67 degs 17-100 Fabrenhelt, and the mean of the cohl-

the thermometer fall and remain at 18 degrees below

freezing.
Fullure of Experiments in title Culture in the Atlantic States.
The Isothermal of 57 degs, 17-100 in the Atlantic States passes near Norfulk, Virginia: Rabelda, North Carolina: Atlanta, Georgia: and Memphis, Temessee.
The mean for the coldeal months are, for Norfolk, 13 degs 78-100, Rubelda, 37 degs, 81-100. Atlanta, 40 degs, 90-100, and Memphis, 40 degs, 19-100. Yet, at times, in all these places, the thermometer fatts to within a few degrees below zero. At Atlanta 11 fell to three degree above zero In January, 1878. Therefore, all attempts all successful cultivation of the olive in the Atlantic a successful cultivation of the olive in the Atlantic States have resulted in faiture.



## A BUDDHIST GARDEN.

#### OLIVE CULTURE IN CALIFORNIA.

Home of the Olive-Its Cultivation in Southern Europe - The Olive Zone — What Portions of California is Embraced Within It.

The Kind of Soil in Which the Olive Will Thrive, and the Quantity of Mois-ture it Requires.

[WHITTEN BY THE LAVE HON, B. B. BURBLING.]

Doring the year ending Jame 30, 1877, there were the level of the the United Rates 348,47 gallons of office office and the the United Rates 348,47 gallons of office office and the second straight, and which a duly was puile of \$222,716,76. The quantity and value of pickled eldives imported during the same period are not given in the

have been transported in some tormer age from there to Europe, yel practically all of the otive oil of computer corners from Italy, Shain, France, Greece, Algeria, Morocco and other countries which have coasts on the Mediterranean.

#### Office Penducts of Iraly, Siefly and France.

Bocaclo says that Italy has 1,235,000 acres planted to the ollow, producing annually 30,560,000 gallons of all. Simmons gives the export in 1884, of that part of Italy and Stelly then composing the Kingdom of Naples, at 39,333, tons, valued at \$11,203,330. Nhoman gives the export from Spain for 1873 as valued at \$10,495,000. In 1874, in consequence of the Carlist war, it fell off to \$3,716,000.

France, according to Prindent, produces but a small preparation of the altern than 1 which it consumes, yet annually expects to the value of \$2,205,000.

prepartion of the ultra oil which it consumes, yet an-mually exports to the vatue of \$2,005,600. George 9, Marsh, United States Minister in Italy, says "that in the oilve, walnut, chestant, early oak, orange, lemon, fig and other irees, which, by their fruit

red moulh not to be below things, 5.100. The areas on the earth's surface with the bothermal of 55 degs are comparatively very limited where the mean of the roblest mouth is bull 16 degs, below the mean for the whole year. In this exceptional climate it dentalies and gives subsistence and wealth in those who culti-vate it. While the mean for the cultiest mouth must not

vale it. While the mean for the collect mouth units not be below 44 days. 5-100, yet it will live and bear eight degrees more of cold than the drange.

George P. Morsh, who has given much attention to the habits and requirements of this tree, says that when the thermometer falls to 14 days. Fabrushett, or 18 days below freezing, and remetes at this point for any considerable period, the shunds are killed and the fruit of that season destroyed. Thus, so far as relates to elimate, we have the conditions requisite for the accessful cultivation of that tree which the italians call "a mine on the surface of the earth." The mean temperature for the year must be as warm as 67 days. 17-100. The mean manageather for the colded mouth must be as warm as 41 days. 5-100, and at no time must

Michany, in his "Sylva," states that New Sievrns, in Florida, was founded in the middle of the last century for the cultivation of the office, and that a coting of Greeke was brought there for that purpose. The experiment fulled, and in 1873 furily a trace of the settlement reasolated.

#### An Kermanian Opliania Explained.

An Erranous Oplition Explained.
Lewia A. Bernay, who has written a treatise on this tree, says. "Anchort writers input the office slate that he free will not survive remote trun the sea air. And this optation has been handed down from generation to generation and is entertained even in the present day by men whose authority on the general subject cannot be lightly regarded. The fact, however, that the office forms a staple product throughout Spain, even in those parts which are so remote from the cases as to be quite harden at the firm of the mass at the subject is set the outer at rest," Hilliamise, is his article on this two, in Michaux's "Sylva," says. "It thrives in the center of Spain and in Mesopetanius, at a distance of one him-

handred years. It stands negivet and abuse, but repays

neglect by only hearing on alternate years. In the South of France by ruitivation and priming it hears every year, It run be propagated from cuttings of the

branches or routs, from layers, from suphers, from the nranches or routs, from layers, from sankers, from the Hith kinds ar excreasives that firm on the tree near the ground, called by the Hallans munds, and from the scale in lin trut. When the latter are used the path should be removed from the ripe ultre, and the seeds soaked for twenty-four hours in strong lys, to soften

them. They should be planted in a stellered plan-

and the ground occasionally walered. Planted in this Statu in Fubruary, the young trees would make their

appearance in July. The tree can be graffed or budded in every method used on the apple or pear.

Culture of the Ciliar Tree.

It romments braring in six years, but does not re-

to the limit of full imitage for twenty-live or thirty years. The average product from each free is stated at from len to fiftern pounds of oil. When planted for an

orchard, the trees are placed lifteen or twenty feet from each other. Pruning increases the product, and ranses

the true to yield annually, as, like the twice, it hears fruit upon the wood of the proceeding year. Callivation of the grounds is not essential, but it turrenses the pro-

incl. After the thousands of years that the olly was been cultivated, a few varieties have been select

dred leagues from the sen-shore." The explanation of the cause of this belief is in the fact, as shown by Humbshit, the variation in temperature is but small as between the mean for the year and the mean for the collect mouth. These conditions are ordinarily found near the orean. The ocean, in a given latitude, having but a small varia-tion of lemperature, while passing over it to the ad-joining land, multip the ribmate, making it cooler in summer and wormer in winter, than land in the inde-rior and subject to the divisit Influence of these wants.

#### Variations of the Moans of Summer and Whiter Transgratures in California.

White Transcratures in California.
On this coast the variation between the mean of the original summer longorabire is, at San Diego, but 15 dregs, 58-190; Moniterey, 9 dregs, 55-190; San Francisco, 7 dregs, 59-190; Fort Ross, 9 dregs, 66-109; Humbeldt, 11 dregs. While in the interior the variations between the ission, willio in the interior the variations between the means for the same seasons, are for Los Angeles, 19 dags, 68-100; Waahn, 47 dags, 36-100; Stockhin, 22 dags, 19-100; Vallejo, 17 dags, 49-100; Sacramento, 23 drys, 27-100; and Chico, 33 dags, 16-100. Trinay be unincessary to call attention to the fact. to call attention to the fact that these are the differs of lemperature between whiter and summer, but were the mean for the year and the mean for the coldest month.

#### Points in California Where the Cilva Can Be Successfully Cultivated. For the purpose of ascertaining where, within this

State, the olive can be successfully cultivated, I have gathered from the tables of lemperature of the Smith-soulim Institute and from the Chief Engineer's Department of the zarlramit companies, a list of all the places whose temperatures fall within these limits in Humbold states have been found to be essential. regions which this list represents, could, without doubt, be extended, had more attention been given in different parts of the State to observing and revording the varia-

parts of the Start to observing and refording the varia-tions in trappreture.

It with he remainbared that the requisites of success-ful and profitable cullivation are, that for the year it must be as warm as 57 degs. 17-100. The mean for the coldest munth must be as warm as 41 degs. 5-100, and at no time must the temperature fall below 14 degrees I cannot find in any authority how high a temperature it will hear, but as it is successfully grown in Algeria and Eg. pt., it could hardly be injured by the highest imperatures that occur at the places mentioned in the

PL+CLS.	Height shove the	Mean of tempera-	Mean of tempora- ture for the cold- est month	Lowest temperature shown by the mom- eter in any year.
San Diego	150	62.49	53 30	26-December, 1854
Los Augeles	257	67.69	68.95	29-Dreember, 1876
Suitedud,	180	59 Hs		21 -January, 1877
Salmas	44	51 95		24 December, 1874
Hollister	2H4	61.46	46,59	21-December, 1874
Gilroy	193		44 45	41-Janmey, 1871
Sau Jose	.8h	59.60		28-December, 1874
Lavermore	485	61 49	49 52	28-December, 1870
Benrelu	1-4	58 17		19-January, 1854
Vallejo	- 11	68.71		19-December, 1877
Fort Telon	32411		42,05	91 — Dreember, 1855
Summer	415	CB 29		27-Dreember, 1976
Dilann	31.1	18 14		30-January, 1876
Bertien	271	66 37		24Junuary, 1877
Fort Millir	103	1/11 50		13-January, 1864
Modesto	91		48.14	28—Junitary, 1856
E1118	707			22-December, 1874
Stockton	23	63 00	17 43	20- December, 1872 21- December, 1812
Sect mento	30	60.48		21—December, 1812 28—December, 1819
Ambura	1063	60 71		27—January, 1871
Collax	2121	60 05		26—Јаппагу, 1373-4
Marysrille	hi	3/1/1/2	416 711	Ji December, 18iii
Chlea	198	82 46		23-December, 1872
Tebana	932	65.20		26-December, 1871
Red Bluff	31.7	bif.22	48.29	26-December, 1873
Redding	559	115 36		27-January, 1876
-				71 200

In the common showing the lowest point to which the merenty has fallen, it should be remarked that it gives the lowest temperature at 7 a. m. Therefore it is safe to conclude that if the thermometer had been self-registering, it would have shown three or four degrees less at 6 or 5 a w on the days when the greated cold prevailed. As, for thiustration, this record shows the increary at Sacramento to have fallen to 28 degrees in December, 1819, yet Dr. Logan stated that twire in twenty-five years it fell to 22 degrees, althought It remained at this point but for a short period.

A Table Showing Menn Temperatures in Olive Producing fteglines. For the purpose of comparing the temperature of the above named places in thilfornia with those of regions to which the produce of the olive is among the articles of the first agricultural and commercial impuriance, I bave compiled from Blodgett's Climatology the mean oave compiled from Hodgett's, Climatology the mean annual and the mean whiter temperatures, as also, the mean temperature of the coldest menth of the follow-ing preminent/places in Haly, Spain, Portugal, France, Egypt and Palestine:

PLACES.	temperas	blean of fem- paralnes for the winter.	printure of
Rome Naples Florence Mathir. Lisben Marsellies Algiers Jernsalem Alexandria	28 03 61 frt 68 03 64 03 62 tol	46,07 49,06 43,08 46,02 52,05 46,02 61,02 49,06 58,06	45.00 47.04 41.03 43.02 51.04 43.02 53.02 53.02 47.04 57.03

A comparison of the above tables will show that so far as they relate in the mean far the year and the mean far the selfest month, the climate of itome and Bacramento is menty the same. So is Alexandria and Low-more Marcollina and Fort Tojou; Listou and Liver-more Marcollina and Henleta; Algiers and San Diego, and Jerusalem and Mercod. In hat one case for the year is there a difference of more than one degree, and lo that one case more than three degrees for the difference of the coldest month.

#### The Wierns Belt of the Fint-Hills,

Another fact worthy of notice which has been son peeted, but for the proof of which the dain has not be fore been attainable, is that the zone in the Sierra, known as the foot-bills, is us warm for the year, and as warm for the cohiest mouth as the Sierramento valley in the same latitudes. This warm betterfainly extends to an elevation of 2,500 feet. Colfax, with an elevation of 2,421 feet, has a mean for the year of 60 dygs. 5-190, and a mean for the collect mouth of 45 degs. 49-100, while for the same periods, Sacramento has for the year 50 dags, 48-100, and for the coldest month 48 degs 21-166. Fort Trion, on the Teleschops mountains, show-line 6,210 fest, for the year, is but six degrees eabler than Tulare, in the center of the valley 3,080 feet below; while the temperature for the winter mouths is nearly the same, Fort Tojon lawing 42 degs. 5-100, and hearly the same, Furt Tejon buying validation of his and Tulare 42 drgs. 7-100. This zone of warm lemperature explains the spacess in the growth of eranges and other emistropical fruits, wherever planted below in elera-Hon of 2,600 feet in the foot-hills of the Sierra

There have been emitted from the list of stations in California, San Francisco, Monterey, Pajoro, San Maleo Printama, Visalia and Thiare, for the reason that in the mean numual temperature, or lathe mean for the cubbed menths they fall below 67 degs or 41 drgs.

Without doubt the cilve rount he grown in the so places, but its rultivation could burdly be unde profit-

#### What kind of Sull, the Olive Require

What kind of Soil\_th Olive Requires.

This lees will grow in aimest any soit except that
containing much moishire. Marsh states "that it prefers a light, warm ground, but does not thrive in rich
allivent lamb, and grows well on billy and rocky surfaces." Bering sags "that it thrives and is most profific in dry calcurrous schistons, sandy and rocky situatimas. The land must be muturally at artificially well
timas. The land must be muturally at artificially well drained. drained. Its great enemy is racess of moisture. It re-joices in the mechanical floorness, of saudy, gravelly and stony solis, and in freedom from stagnant moisture." Brandy asserts that it only grows well and yields targe crops "in a warm and comparatively dry climate" Dr. Rubiuson says: "It delights in a stony soil, and thrives even ou the sides and lops of rocky hills, where there is scarcely any early; bence the expression in the Bible, "oil out of the flinty rock." Hillhouse, in his article on this tree in Michanx's Sylva, says: "The olive accommodates itself to almost any variety of soil, but it shims a redundancy of moisture, and prefurs loose categrous, fertile lands, mingled with slores, such as the terrilory of Attica and South of France. The quality of its fruit is essentially affected by that of suil. It sacceous in good loam capable of bearing eat, but in fat lands it yields oil of audiferior flavor, and becomes laden with a barren exubrance of leaves and branches. The temperature of the climate is a consideration of more importance than the nature of the soil." Downing, in writing of this tree in Southern Europe, says: "A few olive trees will serve for the supan entire family who would starve on what could otherwise be raised on the same surface of soil, and dry crevices of rocks and almost otherwise harron soils in the deserts when planted with this tree, become flourishtug and valuable places of habitation.

## Its Adaptability to the Dry Plains of the Interior of the State.



# REDWOOD FOREST, SAN MATEO COUNTY,

have a line that can be grown on our siry plains and naked hillaidea. In the Eastern isombethere its limits of profitable cultivation are as far north as the South of France, and as far smith as Calve, in Egypt. Whenever in the zonst, from San Diego to Montarry, and wherever in the hiterior of the State, within the thatis. wherever in the interior of the State, within the limits of the temperature stated, there is an annual fall of rain smideled to produce barby or wheat—on rocky hills or saidy plains, when ones rooted, this tree will thrive and bear. For the valley, its extreme martiner limit is at thridding, for at Fort Reading, but twelve miles distant and with 116 feet greater elevation, the mercary in the thermoment fell to 11 dogs, in December, 1806, within want the fatal. which would be futul,

# The Olive Limits in the Sacraments, San

Jampala and Tabers (task).
If we brogher two lines starting from itselfing, which has no eight of the west side of the has an entitation with as a next, one an the west shir of the Secretard the other on the east shide of the Casas Itange, gradually assembling as hillinds by degreesed until they meet at Fort Tepin, in the Teblackape mountains at an advertion of 3240 feet, we would have the probable limits in the Secremento valley and adjacent mountains helm which the olive could be successfully cultivated.

Suttinity of the titre,

This tree when once plantad, he planted pravtically
forever. Some trees in Eurape still bearing, from the
record of the tax-rolls, are known to be older than four

alumidanco of fruit mot superferity in quality, as also for themess of flavor in the all produced. trees are raised from the smalls, they are lavariately indded or grafted from some of these well-known variethes, as the chances are very ramote that from a Thomsand seedlings one would be found of equal value to thuse new cultivated. About thirty different kinds are grown in France and Haly.

#### Vuluable Unitetted of Ollio Trees

From the French list in the New Comment I have so-lected a force of those which would probably be the most valuable if belrochiesed into this Sinte:

Olivier Amygolallin, (Oleo, danygolalina,) which is re-beaund for its time and abundant oil. With care, it is said to yield in oil one-third of the weight of fruit, 25th variety in the new Dulmand.

Aghinham, good for oil, and prefers dry and tigh land; 3d variety N. D.

Plebulthe, (blen ublonge,) the lood variety for pleb-ling, known becommerce as the Queen'softve; and delli-cate as to soil and ellinate. I bullow a few trees of the Plebulthe have been brought to this State; 11th variety N. D.

mr, (Olea Cenniomorpha,) good for table, pure and almodest toll; requires mulstern, but withelmuls the cold; tith variety N. D. Olivier du Lurque, (Olea minor Lucaucus) hardy, und

yiolds fruit tor proserving; oth variety N. D.

#### Expressing the Oil.

In the south of France, where the must care is given in the preparation of oil for market, the clive tipens in November and December. The fruit is gathered before being fully ripe, but is allowed to remain a few 2450 for the evaporation of any multiure. It is then crushed an edge which mill of slotu, usually drawn by hore an edge-wheel until of stone, usually drawn by horse-power. The stone resembles a large graddane with the edge serrated, and the until to not unlike the base until shouse in the United States thirty years size. The object in serrating the edge of the stone is to weak erashing the seeds or kermels, which routed hands and a little infector off. The viright off is dipped from the until and is almost invariably kept to early poor-qualities of oil. The pomare is miceally names and is alrowd invariably kept to early power qualities of oil. The pomare is pinced in cause line bags about algitheen turbes in diameter. Several of these are put into a screw-press and the power applied. The oil expressed runs into a tank. This gives the forquality of oil. The pomare is now taken from the bags, broken up fourly and again put under the screw-press form second and third time, on each necession yields less all and of an infertor quality. After the that pressing the pomare is again broken and a half gallow of builling water noured into early bags, it is again pressed, yielding an inferior oil used for burning, large cating and in the manufacture of castlle scap. Even the virgin oil when first pressed is turpid but clears a self by stunding in ressels not open to the air. It should self by stunding in ressels not open to the air. the virgin of which has a present with part in create, solf by stunding in reservis not open to the air. It should be kept in places having an even temperature. The groduct of all of the pressings is about three gallons of oil to the bushel of olives

#### Pickled Ollyen

The best clive for pickling is the Picheline (Oleo shinga). In the souther France it is gathered in October, just infere the furt has commenced to turn blown, the sloest are selected and placed in a weak solution of sola-to which lime has been added. After remaining in the solution about len hours or until the pulp can be readly driached from the kernel, they are removed and placed in cold water, which is daily changed for a wel-This progress removes the tannin from the unrig What they cease to be hiller they are bottled in bine, which is usually made around with corander or for null. The next hest variety for picking is the Olsa use or directed, the variety in New Duhamel. This is the valuable for oil.

#### Introduction of the Olive Into Collifornia.

I have found it very difficult to obtain the history of the introduction of the Mission of the into Californ It was first brought to America by Antonio Ribera, who hook it from Spain to Luna, in 1500. Frezier speaks of the offee being used for oil in Chili as early as life. Frank A Kimball, of San Du go, In an writeleou the olive in the Southern California Historithment, states that it field the California Historithment, states that it field the trees were planted by the Spainsh mission are state that place in 1500. If this is correct they are from seed furnared of from San Blas, in Mexico, by Dosphille Galvez, who afted out an expedition by return of a rayal order 4to reclusioned and people the Port of Monterey, or at least San Diego," which expellies accompanied father Junipers Sera, in his missionary off arts 'to extend the spiritual conquest of the North' Fifty years later it its recorded "that all the seeds this Galvez had been as provident in sending up, took red tutroduction of the Mission oflive into Callion Fifty years later it is recorded "that all the seedsthi Galvez had been so provident in sending up, took rost and prospected. The Father's built new infessions as continually repleatabled, their stack of converts, which at one time amounted in 20,000. They planted uneyards, or quarts and the olive." From San Diegoth tree was transplanted to nearly all the other missons and from these missions to various places throughthe State, Other than those at San Diegot, Santa Barbar inti San buts Olispo, I cannot learn that this tree has my them planted in orchard form, with the objected making profit from its frost.

#### The Mission Ollve.

H. N. Bolamter, who thad charge of the botany of the Geological Survey of the State, Informs me that mall of the missions there was but one variety of the circ. one of pear and one of grape.

There made considerable (fort to learn the named this particular older, and to ascertain if this variety? rultivated in Europe, but without surness. John Ellis who has tharge of the horticultural grounds at the University, informs me that the seeds of the Missis "come correct, and produce fruit of the same his as the parent." From the fact that the seeds prober trees, bearing the same kind of fruit as the pared. I would be safe to conclude that it lathe original slock of the wild olive of Europe or Africa. It is a shy bear, and has fruit very much smaller than the varieties of tivated in Haly and the South of France. It is probably very valuable as a stock on which to graft or bud mer probleckinds. It has, however, demonstrated that its host varieties can be successfully grown over a war range in California.

#### 3 Uniful and Profitable Tree

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I can find no other tree no nseful soil profitable that will grow and thrive with so small an amount of more ture. If, as many believe, an autuml rainfall of agree place can be invreased by the planting of trees, I do many believes as a second by the planting of trees. know so useful a tree to recommend for this parpose
If it should fall in adding to the rain, it with be certain
to thrive on what valudoes fall and to sure to yield sh whether rultlested or neglected, for what Virgil wit unite than 1,000 years ago is still true. After having de-acribed, the continuous culture necessary for the vis-he adds: "On the other hand, the clivea require no callire, nor do they expect the erocked priming book as toungious harrow when more they are rosted to Be ground and have stood the blasts. Faith lerself applies the plants with multiurs when opened by the busked tooth of the drag, and neighty from whe opened by the share. Nature for thyself, with this the fat and power delighting office.

#### BUTTER VIELD.

Tim Petalum Courier says that, at the precisi of the Dairymen's Association, W. invinior, shiful that he was now making 80 panels of butter a day front 100 cows.

#### SAN MATEO COUNTY.

Suburb of San Francisco-Fine Climate -Resources, Etc.

Towns, Villages and Summer Resorts

[By the Traveling Agent of The Resources.] This fine little county occupies most of the peninsula which separates the ocean from San Francisco Bay, and joins "the city and county of San Francisco" on the north. It possesses a variety of soil, climate, productions, and commercial advantages enjoyed by few locali. ties. Immediately cast is the buy, and Santa Clara county, which is acknowledged to be the garden of the Pacific Coast; on the south lies Santa Crnz, the Saratoga of California. It will thus be seen that San Mateo occupies an euviable location. Between the ocean and the Gabilan Sierra Moreno mountains, which rnn the whole length of the county, is a number of small valleys, in all containing 75,000 acres of tillable hand, 17,000 of which are perfectly |-vel. On the eastern side, between the mountains and the bay, is the largest extent or level land, amounting to 40,000 acres, the control part of which the Southern Pacific Railroad passes through. The county is five miles wide at the northern end, where it joins San Froncisco, but it rapidly widens toward the south, being eighteen miles wide in the middle. The county is 42 miles long in a straight center line, and in all contains 292,500 acres. One of

its principal advantages is its excellent water supply; while there are no large rivers, there are numerous small spring streams. As is well known, San Francisco draws her water from San Mateo's territory, and the excellent facilities of water, of which the Spring Valley Water Co. has availed itself, exist along the entire length of the mountain range; springs, of excellent ater, abound everywhere.

The climate is quite as diversified as the soil It is generally admitted that no finer climate can be found than that between the bay and the mountains, in this county. There is a numher of small towns senttered thronghout.

#### Redwood City.

The county seat, is the largest town, and contains 1.400 inhabitants It is situated on the S. P. R. R , at the head of pavigation on the bay, only 28 miles south San Francisco.

It is the center of considerable trade in lumber. livestock, kay, and dairy productions. town is situated on both sides of Redwood creek, on level ground. The land is dotted with beantiful, wide-spreading oaks; the soil in this vicinity is dark, and a large portion of it is of a black, adobe nature. It is principally owned by some of San Francisco's wealthiest citizens, and is valued at from \$300 to \$500 per acre; it is used more for fine residences than for farming. The redwood business of the county centers here. Among the numerous saw-mills are those of Hanson & Co., at Lahonda, on Sau Gregario creek, with a daily ca-[meity of 16,000 feet; A. & J. N. Sanders' mills, ou Tamitas creek, with a daily capacity of 16,000 feet; Border & Hatch's mills, neur Spanishtown, with a capacity of 10,000 feet; and the Gozas mills, near Pescudero, which are ron by Chinomen, furnishing about 15,000 feet daily. B. Hayard has a small mill, near Pescadero. This county, at one time, Irad mease forests of redwood timber, which has mostly been cut out. There still remains about 125,000,000 feet of standing redwood within the borders of the county. The lumber sawed in 1832 -according to the Assessor's report-amounted to 88,000,000 feet, and there were 10,000,000 shingles manufactured at the elever different mills in the county. The agricultural products for 1882 are as follows 24,000 acres of whent produced 613,000 bush-els; burley, 17,500 acres, producing 375,000

hushels; outs, 4,590 neres, producing 173,000 Redwood City, at from \$150 to \$500 per acre, hushels, tye, 50 acres, producing 2,500 hashels; corn, 200 acres, producing 8,000 lmshels; beaus, 50 neres, producing 1,200 bushels; potatoes, 3,500 mires, producing 8,800 tons; sweet potutoes, 75 acres, producing 230 tons; onions. 50 acres, producing 5,000 bushels; hay, 17,000 neres, producing 25,500 tons; flux, 2,000 acres, producing 1,380,000 pounds; hops, 10 neres, 17,500 pounds. The dairy production was 118,000 pounds of butter, and 275,000 pounds of cheese, besides the large amount of milk sold to San Francisco people; the production of honey amounted to 2,000 pounds, and 1,000gallons of wine were made, There are, in the county, 2,866 head of horses, 164 mules, 6,627 milch cows, 4,692 head of cattle, and 2,329 hogs. The fruit crop of 1882, valued at \$3,500, was grown on 50 lemon-trees, 170 orange, 90 olive, 11,000 apple, 3,070 pear, 261 fig. 2,820 plum, 2,750 peach, 330 quince trees, and 112 acres of hearing vineyards. By giving a detailed account of all the different productions, we enable our readers to form some idea of the capabilities of this little county. Besides the above industries, wood is liberally supplied, as a large force and much capital have been devoted to the cutting and shipping of fuel to The Italian vegetable gardens, producing cabbage, lettuce, and other root crops, cut no small figure in San Mateo county.

The population of the entire county, in 1880,

according to improvement. In this victuity is d. C. Ftond's country resulence, and the late Milton S. Lathum's beautiful country home

Monto Park

A beautiful country place, a few miles distant from Redwood City, is surranuded by fine country homes, such as those of John T. Ex-Mayor Rathborne, and the late Thomas H Selby. A short distance is the "Pale Alto" ranch of Ex-Governor Stanford, where the fluest horses in the State are bred | Hilton & Titus' curriage und wagon factory is quite a feature in Redwood City. Chamberlain & Wileax's large store of general merchandise, consisting of drygoods, groceries, furniture, etc., would compute favorably with similar establishments in large cities. Menlo Park has a fine hotel, kept by Mr. Junes Vance. The town contains about 800 inhabitants. miles north-west, on the same railroad, brings us to the beautiful village of

Maynold.

The land, as in the vicinity of Meale Purk, is owned in large tracts by a few wealthy citizens, who have heautifully improved places, Mayfield contains about 900 people. The hotels are Beaty's, kept by A. S. Beaty, and the Occidental, kept by Mrs. C Decker. There is one large general store, that of d. Rosenblum, who has been engaged in the mermatile hasi ness for a number of years, and has built up

Schuyler, who has accommodations for 100 guests. The house is well furnished, and here may be seen some of the finest sea-moss and agate-a perfect gallery-very artistically urranged by the laudludy. The beach, neur by, uffords beautiful specimens of sea moss, of all conceivable colors.

Immediately across the street from the above house, is the Ocean View Hotel, kept by J. S. Weiley, with good accommudations, at reasonable rates. The general stores are kept by Levy Brothers and Jucob Rosenblum, and there are several smaller ones. C. C. Walker keeps the Hulf-moon bay drug and stationery store. The Hulf-moon Buy brewery of A. Schulart, manufactures about 500 barrels of beer annually. These constitute the principal business houses. Two and one-half miles from

Ames Port,
Where the P. C. S. steamers call regularly for freight and passengers. The principal conveyance is by stage, from Half-muon Bay to San Mateo a distance of 21 miles by A. Taft & Garrelson's line. The same company ran a line from San Mateo to

Pescutera.

A distance of 32 miles via. Spanishtown-fare, \$3.50. The rand raus within full view f the broad waters of the Pacific. The hand along the ocean is all good farming had, and is sown to outs, barley, liny, and potatoes. The hest-

improved land is valued nt Irom \$100 to \$150 per acre, the rolling hills nt from \$20 to \$40, and the more rough pasatre lands at \$5 to Stages run from \$10 Pescadero to Saute Cruz, 38 miles, con Davenport, Sesside, and Pigeon Point. Near Pessendero are fine red-wood forests and beautiful camping - grounds, One and one-half miles west brings us to one the finest, pelibly sea heaches, where all kinds of opul, ugate, n n y x, curneliun, and bloodstones are found, ulso an endless variety of mosses. One of the lending attractions of Pescallero is the



And cottages, acknowledged to be one of the fluest summer resorts on the coast. It is open ull the year, and is kept by C. W. Swintin; it has a fine fruit orchard and dairy connected with it. Immediately across the street from the holel is the large

general store of J. Garretson, one of the proprietors of the stage lines leading out in different directions from the place. has an excellent, cool, summer climate, with extensive redwood forests on one side, and a fine, pehbly ocean beach on the other.

Lahonda,

Sixteen miles south of Redwood City, in the midst of the redwood timber belt, is a summer resort. The hotel is kept by J. H. Seurs, who spares no pains to make his guests feel at The streams here are full of brook tront and other fish, and the woods, near by, are filled with small game. Those advantages, together with its neurness to San Francisco, make it popular for those who take a summer vacation from an active business life,

We would like to extend our description of this beautiful little county, ant our space does not permit it.

## CATTLE FEEDING.

The Reno Gazette says: The scarcity of estite in the East, and the subsequent rise in the price of best has aroused the cattle dealers to activity, and all the cattle are being fed that hay can be found for. There are more feeding at present in Honey lake valley, says the Greenville Bulletin, than has ever been known before, There is an nausnally targe orup of hay raised there this year, and it is now all sold, going readily at the dist for \$5.50 and some increasing to \$6 per ton. Over 4,000 head of beef cattle are being fattened in the Tule district alone



#### CAMPING SCENE NEAR PESCADERO, SAN MATEO COUNTY.

was only 8,074. Redwood City, really a suburb of San Francisco, is a delightful place of residence, on account of its fine climate, beautiful flower-gardens, and close proximity to the metropolis. The

Are the Grand, kept by Wm. Funll, who has accommodations for 150 guests; the Redwood City honse, a new, cosy building, which was built less than one year ugo, and is kept by C. Hynding; the Tremont, on Moin street, which is kept by Churles Ayers, who has accommodutions for 40 guests; and the Farmers' Home, kept by James Hora, who gives good accommodutions to the economical traveler, at reasonable rutes.

Redwood City has two breweries. The Eureka, located in the husiness center of the pince, has a capacity of 1,000 barrels annually, and is owned by J. Hodler. The Pioneer, established eighteen years ago, at the south end of town, is owned by M. Kreiss, who can turn out 5,000 barrols annually. Between this place and the business center of the town are the Redwood City mills of L. Nelson, who manufactures from 30 to 35 burrels of flour daily. The city supports two local

**Nesvigilagicum** 

The San Mateo Journal, issued every Thursday, and published by S. C. Leahy, and the Times and Gazette, issued by the Sun Mateo Publishing Company. Michael Walsh, a dealer in roal estate, rates land within five miles of an extensive business. Here are also the lumher yards of Win. Pages. A few miles nearer San Francisco brings us to the village of

#### San Mateo.

Which contains about 600 inhabitants. Land in this vicinity is a fine, durk loam, and is valueil at from \$100 to \$700, and up to \$1,000 per There are several fine brick blocks and several hotels. The Walker House, kept by Eugene Walker, is the principal one.

The drng, hook, and stationery store of Charles M. Morse is worthy of special note. Here we bourd Andrew Tafus' stage, and go over a beautiful, picturesque mountain road, in full view of the Spring Valley Water Company's artificial lukes, and amid some of the finest scenery in the vicinity of Sun Francisco, s distance of thirteen miles, to

Spanishtown, Located on Hulf-moon bay. The town is situ-ated near the ocean beach, and has a population of 500. Here are located the agricultural works of R I, Kaapp, who is manufacturing Knapp's putout side hill plow that is so well known throughout the aiountainous portions of State. They are extensively solil by the wholesule dealers of San Francisco, and are considered the best side hill plow in the mar-Jumes Boulah's carriage, wagon, and general blacksmith shaps are here. The town Is watered by the San Benite Water Works.

Schuyler's Hotel, A three-story building, is kept by James

#### SOME ARTESIAN WELLS.

In accordance with our promise, we here give the statistics of some of the most nated artesian wells in the world. As the question of artesian water is now and always with the interest to the people of this section, we think these figures will be read with attention by all:

At St. Lonis, Lunisville and Charleston are some of the most important wells in the fluited States. At Lunisville the well is of three-inch bore, is 2,086 feet deep, and flows at the rate of 330,000 gallons per day, the water rising with a force equivalent to ten-harse power.

At Charleston, S. C., is an artesian well 1,250 feet deep, which discharges about 1,200 gallons per hour at ten feet above the surface.

In Iroquois county, Ill., at a distance of 85 miles from Chicago, are some 200 wells within a radius of about 20 miles. Their average depth is 70 feet, and their doc varies from 20 to 120 gallous per minute.

At the Continental Hotel, in Philadelphia, is a well 200 feet deep, yielding 50,000 gallons per day.

At a number of points in the Llano Estacada, in New Mexico, wells have been sunk by the Government and water always obtained

At the Point of Rocks, ou the Union Pacific

Railroad, in the midst of a great alkali desert, no artesian well furnishes an abundant supply of pure water for the use of the railroad.

Crossing the ocean, we find namerons wells, some of them having an astorushing flow. At Bonus, Eagland, is a well 92 feet deep, with a discharge of 557,000 gallans of water per day.

A well at Aire, in the province of Artois (whence the name artesian), which was bored over a century ago, has flowed steadyly ever since at the rate of 15,000 gallons an hour.

At Lillers, France, is a well which has flowed stemlity since the year 1126, a period of over seven and a half centuries.

The Greuelle well, in the Paris basin, has a depth of 1,797 feet, and the flow is 500,000 every 24 hours.

At Passy, is a well 1,023 feet in depth, from which the enormous amount of 5,500,000 gallous per day is discharged.

In the desert of Saharn, a French engineer commenced, in 1858, to seek artesian water. He soon obtained a well with a flow of 1,000 gallous per minte. Since then many more wells have treen sunk

successfully, and a large extent of heretofore around Buffin's Bay, and they were examined entirely desert country has been successfully by eminent homitists, same of whom mistook put nuder cultivation.

We think that the most casual inquirer into this question can but be convinced, even though against his prejudice or interest, that the possibility of obtaining artesian water is practically unlimited, and with proper appliances no seeker after water in that form need go narewarded, at least in our section.—Same Bernardino Index.

#### DISTRIBUTING SAMPLE PRODUCTS,

One of the best ways to spread the fame of Culifornia products is certainly to distribute them, so that consumers everywhere may judge by sight not taste of their excellence. reason we regard with satisfaction efforts like the following, which is described by the Los Angeles Express: Messrs Wondhend & Guy shipped per order of Mr. Wm. Pridlinm, sucks of outs-withints and ulmouds-Kunsus City. They are from thomes to be distributed to different portions of the East, as manades of Culifornia ants, thus creation a market and building up a trade in those arte-Mr. J. J. Valentine, of Wells, Farge & Co., will see to the distribution of the ples, and is taking a lively raterest in introduc-ing California products to the East.

#### RED SNOW.

At a recent meeting of the San Francisco Microscopical Society, Dr. Harkness presented a hottle of "red snow," which he gathered last done on the Wasatch Mountains. 'The red snow was lound on the north side of a spur which rose about 10,000 feet above the sealevel. When fresh, the snow has the appearance of being drenched with blood, as though some large animal had been killed. The " snow" is caused by the presence of a one-celled plant, called Protocaccus nivalis, which reproduces itself by subdivsion; that is, the coll divides itself into several new cells. This is done with great rapidity, and a few cells lodged in the snow, under favorable conditions, our will give it the appearance of "red snow." It was remarked that the phenomenous of red snow had been observed from the earliest times, as Aristotle hus a pussage which is thought to refer to it. The subject was, however, lost sight of, until brought up by the investigation of Sanssure, who found it on the Alps, in 1760. He made chemical tests, which showed him that the red color was due to the presence of vegetable mutter, which he supsed might be the polon of some plant. In 1819, an Arctic expedition, nuder Captain Ross, brought some specimeus from the cliff's

#### HOMES FOR THE IMMIGRANTS.

The great number of immigrant families now constantly coming into this State must have homes, and the greater part of them are preto buy small farms, or to take up such small Government tracts, as their useums will altow them, individually, to work. This is as it should be; we need small homes, and many of thom. The full excellence and capability of our California soil will never be demonstrated until ull our vulleys and hillsides, mountain hollows and chapperal ridges are dotted thick with cuttuges, each the shelter and roof-tree of a separate family, each with the center of its small dominion of cultivated acres, family here can thrive and graw rich on a farm not bulf as large as would elsewhere be required to barely furnish them the necessaries of life, Every facility should be given the new bone and sinew now being joined to our population, to assist in adding to the steady and swift progress which our State ought to make during the next 25 years. If some, or all, of our brilliant political speakers would exercise their energies for a couple of years on the proper distribution and development of the thousands of acres of land yet lying necless and uncultivated in our State, it would add more to the people's advancement than a hundred centur-

#### LARGE CALIFORNIA ESTATES.

The Haggin, Carr, and Tevis property is divided into a unmber of separate ranches, euch with its resident superintendent. The Belle. vue Ranch, so called, is the center and focus of authority for the whole. Here is the residence and office of the general accesser, and here is ussembled a force of book-keepers, engineers. and mechanics, who keep the accounts, map. plan, supervise, construct, and repair, and give to the whole the clock-work regularity of a great commercial enterprise. The numerons buildings constitute a considerable settlement. 'fhere is a "store" of general merchandise and supplies. A dormitory and a dining-hall have been erected for the laboring hands. A towerlike outer-tank, surmounted by a windmill. and accommodating a milk-room below, rises at one side. There are shops for the mechan. ics, capacious barns, and long sheds filled with an interminable array of agricultural implements. It is worth while to take a walk past this collection of reapers, threshers, snlky idows, and rakes, and study out their uses, The immense "header and separator" from the rest, like some awe-inspiring leviathan of the deep. A whole department is devoted to the "road scrapers," "buck scrapers," and plows of various sorts, used in the construction

and dredging out of the irrigating ditches. The soil is, furtinately, free from stones, and the work is, for the most part, quite easy. One enormous plow is seen, which was designed to be drawn by 60 yoke of oxen, and to cut at once a farrow five feet wide and four deep. Like the famous steamship Great Eastern, it loss defeated itself by pure bulk, and is not now in use

More than \$500,000 have been expended on the great estate, in the item of feucing alone. An average of 400 laborers are employed, and in the harvest season, 700. The rate of wages is quoted at from two and one-half to three dollars per day to meclamics, and one dollar per day to common hands. This seems low, as compared with itformation from other sources, and that which appears in the chronic complaints of the scarrity of farm labor, in the Califorpin papers.

No great portion of this domain appears to be now in the market at the disposal of settlersof simall means, though the intention is avowed of offering some of it in this way who all shall have treen thoroughly reclaimed. Numerons tracts, however, are occupied on very faver.

able terms by renters, as they are called. They take from 120 to 600 acres. Very manyof them are Portuguese and Italians. They are usually aumarried, work in companies of from six to fifteen persons, and went the red Garbaldi shirt. The renter is provided by bolandlords with a honor, an artesian well, a gredit to a moderate amount at the gental stare, and the use of some cows. He has the milk of the rows, but must give their increase to the estate. His longer runs three years, and he pays, as rout, one-third of his crop. Issumees of large profits are frequent amount these persons, and, no doubt, the same opportunities are open to others who may wish be follow their example,—Cor. Harper's Magazise.



CHINESE FISH MERCHANT, SAN FRANCISCO.

around Buffin's Bay, and they were examined by eminent hotunists, same of whom mistook the nature of the plant, and there was a long discussion as to its proper classification, some hobling it to be a fungus, some a lichen; but it was finally set at rest, as one of the uncicellular algae. It is of interest, also, that some of the enrly examiners pronounced the color due to animalcules, but this was disproved. Dr. Harkness said that during his visit to England, he saw the original bottle of specimens brought from the Arctic more than 60 years before, and in which the protocaccus could still be seen with the interoscope.—Scientific American.

#### SMALL PARMS

The Sun Jose Mercucy says "that the large number of sales of small farms which are being continuously made by our real estate agents is most satisfactory proof that the Santa Ohra valley is entering upon on era of substantial prosperity hitherto unknown. The parties who buy these small tracts are for the most part thrifty mon, with some capital, from the Rustern States, who know that small forms thoroughly mut intelligently worked are for more producted than large tracts conducted in stip-shod, half-hearted muscaer. They understand what they are chout, and most of them will really other anticipations."

ics of the stimp eloqueurs we are yearly treated with. The excellence not capillality of our rich California soil will never be fully demonstrated nutil these small lomes take the place of the extensive sheep-walks and grizzly homits now award by a few selfish and caroless expitalist, s. When every hill-slowe and mountkin hidliow, isolated valley, barren plain, and chapparatridge from Shustn to San Diego is thus utilized, and not till then, we shall have achieved the full realization of the dream of the first white explorer who sailed by our golden shore. He said transcribing from his quaint dury-"It is a fair neal pleasant land, wherein lieth antel that is goodly for the dwelling of Christians." Sauta Barbaca Press

#### готато упод.

The Inya Independent says: Dr. W. H. George interms us that a gentlemm at Bishage cultivated 2,373 pounds of potatoes from 12 pounds of seed on a prece of grand two by the reds in extant. This is at the rate of over ninuteen tons per nore. The variety is called the "white star," and has lat recently been introduced in this valley. Same of our excludings have been "blowing" about a yield of eighteen tons of potatoes on a single nere of grand in one of the remater countries, layous of them one ton better.

#### CALIFORNIA'S GOLD YIELD.

California is the best gold field yet discovered in this country. The yield test yet was \$15,000,000. It once reached as high \$10,000,000 to \$50,000,000 per amana. Some authorities claim that the gold product in the State, from \$851 to \$857, was from \$55,000,00 to \$60,000,000 per amana, and that in \$63 k remetted \$65,000,000. Since \$648 the gold yield of this State has probably howe \$1,155,000,000 Some claim \$100,000,000 mare, but the inside tight is supposed to be the mearest to acts.

#### MARIN COUNTY.

Topography - Soll-Climate - Dairy Pro-ductions, Etc.

Towns, and Their Industries, Described.

[By G. D. H., Traveling Agent, No. 2.]

Marin county takes its name from an Indian rhief of some celebrity during the years of the Spanish accupation. This ludian had his hend-quarters on one of the small islamls in San Francisco bay, east of Sau Rafael, which, at present, is known as Marin Island, in honor of the chief.

Marin is situated on the porth side of the Golden Gate, and therefore constitutes the peniusula that lies between the north arm of the San Francisco and San Pablo buys, on the east, and the Pacific ocean, on the west; on the north it is bounded by Sonoma. It is irregularly-shaped, and is one of the smallest counties in California. Notwithstanding it has an area of 357,096 acres of laud, only 331,430 acres of this is upland; the remainder, mainly swamp and overflow title lands, bordering on the bays and estunries, will, it is thought, be levied, and hecome valuable, at no distant day.

#### Assessed Land.

The number of acres of land on the assessment roll is 319,802, leaving 37,204 acres which are not assessed, nearly all of which consists of barren and rocky bluff's along the coast. The taxable property of this county amounts to \$7,581,665, showing a gain, since the last assessment, of \$24,165, which is a more satisfactory showing than some of the larger counties can boast.

The surface of the country is mostly broken and hilly, with hut a small portion of level, or valley land. There are high, sharp, rngged hills, with narrow valleys, bordering on the numerous creeks which find their way to the ocean and the bay. highest elevation in the county is Mount Tamalpais, 2,608 feet above the level of the sea; it is about six or seven miles from San Rafael. From its summit. which is rssy of access, one may see, on a clear day, the broad expsase of the ocean, and gain a superb view of the Golden Gate, the entire surface of the bay, and San Francisco, including the numerons towns and villages that border on this, the finest harhor in the world.

There is but little farming done in this county; the soil is of a black, leamy nature, and is suitable for the production of vegetables. The rolling lands are mostly black adobe on top, mixed with gravel, and a stiff clay sale

seil, and are adapted to the production of the natural grasses. Nearly all of the land is held under Spanish land grants, consisting of 21 different grants, containing over 300,000 acres.

At the present time there are several landowners in the county who rent their lambs in suitable tracts for dairying purposes. They have the farms fenced into tracts of from 500 to 1,000 acres, each with dairy bouses and burns, and a sufficient number of duiry cows to consume the feed. These farms are reuted to tenants at the rate of \$20 to \$25 per cow per annum, upon which the renter makes a good profit, as is evidenced by their prosperity.

Marin has the privilege of enjoying the prevailing winds of summer which blow from the ocean, and pour upon the hills and valleys in the western and southern portions a constant stream of fog, which keeps the grass green long after it has withered and gone in the interior portions of the State; it thas gives Marin county in advantage over all the rest of the State, as regards dairying.

Marin county butter is sought for by dealer and cousnmer, because of its superior quality. This is attributed to the even temperature, superior grasses, and cool, pure water. year there were registered on the assessment roll 23,767 milch cows, and 32,217 stock cattle, hesides 6,280 head of hogs, which speaks well for as small a county as Marin.

#### First Settlers.

Marin county was first settled, by whites, at the Mission San Rafnel, by Don San Luis Antoof the Presidio of San Francisco, and Governor

ad interim of Culifornia, under the unfortunate Emperor Iturhide. The first family that settled in this county was that of Rafuel Garcia.

Population.

The last consus gives Marin county a population of 11,307 white people and 1,500 Chinese, who are mostly engaged in fisheries along the shores of the bays,

#### Sinc. Rufact.

Sau Rafael is one of the most picturesque suburban towns adjacent to San Francisco. It is reached by two ways: either by means of ferry to Saucilito, where one enters the rars for a ride of some ten miles, among romantic and inspiring scenery, to San Rafnel; or by ferry to San Quentin, and a ride of three miles in the curs, when the county seat of Marin, San Rufuel, is reached. It stands about three miles back from the water, and commands a view of the upper end of Sau Francisco bay, surrunnded on all sides but one by hills, which are barriers to break the force of the sharp blasts that rush across the San Francisco peninsula, and thus leaves San Rafael between the hills, free from hard winds, and completely sheltered. This arcounts for the fine, balmy, summer climate of Sau Rafael. Notwithstanding the unionat of rain, in the winter months, there are weeks of warm, spring-like weather.

San Rafael is different from other small villuges in the vicinity of Sun Francisco. It coutains a population of 2,300 people. The huildings, both public and private, have a fresh, clean appearance, amidst the most exquisite scenery, which strikes the vision with wonder who have on hand and are dealers in all kinds of interior decorations, window-shades, etc. They have been established only one year, and are doing their share of the husines

Wm. Sale, who has been established here since 1875, has the oldest establishment in his line in the county. He sells furniture, upbolstery, carpets, etc., as cheaply as one can purchase them in Sau Francisco.

The grorery business is well represented, Haskell & Co., formerly of Haskell's ten store, under the Grand Hatel, San Praucisco, seem to do the greater share of the business. He has been established here since 1879.

The hanking business is carried on by M. M. Gordon and A. P. Hotaling, who represent a eash capital of over \$200,000. They have been established since 1871.

#### Hotels.

Sun Rafael hus some fiuo hotels, among which is the Tamalpais, a large, three story mansion, with five cottages connected. It is situated in the western part of the town, and is a first-class home for the phrasure-seeker or traveling man, as it has accommodations for 125 people. In a stable, connected with it, are kept riding poules and five placeton carriages, for the use of guests The proprietor, Mr. W G. Grahum, is the most popular hotel man in Culifornia.

The New England Home is kept by Dr. C. N. Miller and Blanche Burroughs, M. D. This is a large, commodious, two-story building, with six cottages councited, each bearing the name of a New England State. It is a pleasant

takes its name has a paper mill, located on the the banks of a beautiful stream of water, and near ungnificent forests of redwood and pine. This is a pupular place for city people to camp during summer. 'I'the next place noted is

Diema,

A station that takes its name from the town of Oleum, shout three miles back from the road, There is one general store, botal, etc. situmted at the head of Tornales bay, adjacent to a fine dairy section. In a few miles the road takes the shore of Tomales hay, and follows it until we reach Tomales creek, where we have the bay und take a northerly course up a canyon, nutil we arrive ut

#### Tomules.

The second town in size in the county. It is a pretty village of about 200 inhabitants, and is situated in a fine dairy and agricultural section of the county; it is noted for its potatoes and butter. There are two churches, a good school building, public and Odd Fellows' general stores, the Bunk of Tomales, for the accommodation of the large dairy interests, representing a capital of \$90,000, and a surplus of \$60,000. It does a general banking linsi-ness; its officers are Warren Dutton, presideut; T. J. Able, cashier.

Dr. G. W. Duttou, who has been here 23 years, keeps the only drug store, and also practices his profession.

The Tomales Market is kept by Charles T. Thompsen, who does a good business in his line, supplying nearly every station on the railroad, from San Rafael to Duncan's M

he reports husiness to be double that of 1881. He has been estab lished ten years.

Peter Delesse is proprietor of the stove and tin store, and his brother, Joe, owns the Sonoma brewery depot; both have but recently opened business

Guldayer & Murphy are inventors and manufacturers of their "Independent platform spring break cart." The shafts are connected with the axle by a coil spring, which relieves the body from all motion of the borse. It is decidedly far ahead of all other carts we have seen,

There are two hotels, of which the Plank House is the best. It is kept by Mr. F. A. Plank, a gentleman who makes his guests comfortable, and sets one of the liest tables it has been our good fortune to enjoy. He has accom-modations for 25 guests. We now proceed up the road a few miles, when we come to

Valley Ford, Where Huntley & Cook have a fine flouring mill, which is kept busy converting wheat grown in the vicinity into flour, etc. We are now in So

nuce is

On the summit of the hills, from which large amounts of wood, railroad ties, etc., are shipped. Up the road we proceed, winding along beautiful streums, through forests of realwood, and we are soon on the banks of Russinu river, along which we ride for several miles, until we cross it on a magnificent bridge, and are at

Dancan's Mills,
The terminus of the railroad. Here we find one of the phlest saw-mill firms in Culifornia, numely, the Duncans, from whom the lown derives its name. As early as 1850, the Duneans, in company with Governor Stoneman, erected a saw-mill, about three miles from where Freestone station now is; it was the first mill erected in Cathlornia. Dancan's Mills is correctly named, us their mill gives to the place quite a hasiness appearance. They saw 7,000,000 feet of lumber numurly, all of which is shipped to San Francisco and intermediate They have a railroad, for logging parposes, which reaches up into their vast wood and pine forests. It is six unles long, and is equipped with an eight-tan locomotive and a sufficient number of tracks to transport the unilions of feet of logs to their nulls. They have 3,500 acres of fine redward and pine tumber hand, which will produce 100,000,. 000 feet of humber. They have a large store in town, near the mill, which does credit to the

The past year, S. Schloss, with Mr. Schu-



MOUNT TAMALPAIS, MARIN COUNTY.

that such romantic and beautiful scenery is so I near busy San Francisco, and comparatively so little known.

The streets of the town and ull the approaches are in keeping with the place. The town is lighted with gas and supplied with water from an artificial lake, midway up Mount Tamelpais, which gives San Rafael pure, mountain water, cleur as crystal, which is a great benefit to the inhabitants.

Land located in the subarbs of the town is valued very highly, selling from \$500 to \$3,000 per acre, owing to the elevation and location, Mr. W. J. Miller is the lemling real estate cleuler who ran chicidate the beauties of climate drives, and scenery. His long experience entitles him to the confidence of those who are desirous of buying, selling, or lensing a homestead in the henniiful town of San Rairel.

#### Bustness Sten.

There are quite a number of reliable contractors and builders here. S. H. Kilen scouts to take the lend; he is ugent for the Althouse windmills, represents five of the best insurance companies in existence, and has been established eleven years,

On A street, opposite the depot, we find Hunson & Lund, dealers in every description of luibling material. They have been established less thun a year,

Isnae Sbaver, who has a planing mill and lumber yard on Shaver street, furnishes all will-work, paints, oils, and hardware for several of the publical residences in course of construction.

Neur the railroad depot are II. Kuittel & Co.,

home in which to spend the winter or summer. The Central Hotel is centrally located, and , uoma county, and the next place of importhas accommodations for 200 guests; J. C. Susanbeth is the popular proprietor.

The German Hotel, one block from the raildepot, is superintended by Thos, H Nichols, and is a convenient place for travelers.

The Delmonico, a cosy little hotel, near the railroad depot, is kept by D. W. Barnard, a genial landlord, who is quite pleasant to his gnests.

Among the places of represtion and unusement, we will mention the San Ratael park, kept by George Clausenins, and Zopf's wine gardens, near II street station, a pleasant suburhan resort, with a fine vineyand of four where chaice wine is mountactured San Rafael also has a well-arranged opera house, besides several balls for public enter-

The press is represented by two wasklies The Marin county Journal, established since 1861, is issued every Thursday by S. F. Bur-

The Marin county Tocsin is issued every Saturday by James H. Wilkins; these constitute the press of the county.

We now take the North Partie Canst Rail-

roud for a trip to Dancau's Mills. 'The roud is a continuation of the same beautiful and romentic scenery mentioned from Sanculito to San Rafael. We wind around curves, ascend grades, pass through tannels, etc. The first place we will mention ls

Taylor's,
Where the gentleman from whom the station

man, ae manager, has oneged a general store; they do a good business

The Russian River Holel, kept by Queen & Goode, is a well-kept house, and has a livery stable connected with it; this is a favorate reeart for tourists and hunters.

The leading blacksmith is T. Moore, who understands his business in all its branches.

John Orr, who has been located here for 27 years, keeps Orr's saloou, and is a pleasant and agreeable gentloman. There are a few other places of business, but, awing to our short stay, we fail to remember them. now take the train for Sau Francisco, feeling well pleased with our trip over the North Pacific Railroad.

#### FACTS FOR SETTLERS

Last week we spoke of the fact that land in the vicinity of Ancheim was far cheaper than similar land in other parts of the county. From the number of soles lately made, there is no doubt that we will soon be deprived of this orgument in writing paragraphs to induce immigration. Land is steadily increasing in value-we know of more than a dozen tracts which were rated at \$50 on acre three months ago, and which cannot now he bought for \$75 an ere. It is evident, therefore, that il would be wise for new-comers to this county to buy some of this abeim land while the price is yet reasonable end

within the reach of people of moderate means.

There is probably no land under the sun which can be put to more veried uses. This is the home of the vine. No better wine was ever made in California thau that which has just been made by 30 or 40 wine-makers of Anaheim. Nor can better raiaius be found euywhere thau those made in this vicinity. This industry is yearly assuming greater proportions here. It has been beretofore insignificant for the reason that the wine grape wes apecielty, but since it has been demonstrated that there is a profit in raisin making, more attention has been paid to that industry. Orange trees grow luxuriantly, and in North Analieim, are orcherde in no respect inferior to any in the county. Applee, peaches, pears, and nearly all northern fruits are grown with results which rather surprise people who come here with the idea that only semi-tropical fruits excel. We have the word of en old gentleman, just arrived from Illinois, that the apples grown in Anabeim are larger and heve a finer flavor than those grown in thal State. Apricots, a Iruit which is destined to become the most valuable product of this county, grows here to an almost phenomenal size, and tho trees are very productive. We have the lestimony of the Superintendent of the Los Angeles cannery that the best opricots received at that establishment last season come from Anabeim; and thus tribute is all the more valuable because of the large area of country from which the cannery was supplied.

There are in this vicinity large tracts of poor, sandy soil, which unthinking people would unbest tatingly pronounce worthless. But we heg to remind our readers that en or twelve years ago seven men out of ten who came to Los Augeles county pronounced as only fit for steep pasture the very land which as to-day worth from \$75 to \$300 per acre. These saudy, almost and, tracts will yet be veluable groves. It is just the kind of soil on which are the finest olive orchards of Europe; nay, it is even more furtile than the soil along the Mediterranean, whence comes the most famous alives. Too little ettention has been given to this tree, but when once the people understand the immensiprofits of olive culture, and appreciate the fact that the tree grows and flourishes on a soil almost too poor to raise anything clse, we may expect to see the clive as largely planted as the grape and the prange. - Angheim Gazette.

#### A GRAND IRRIGATION SCHEME.

The San Bernardine Times, referring to a schem which, if carried out, will result in untold wealth to that valley, says:

A short time ago the Index had a short editorial commenting upon the feasibility of building a system of reservoirs in the mountain canyons north of San Bernardino, and theroby supplying water to irrigate the vast tracis of land, in comparison with which its cultivated area is a mere bagatello. were not then aware that the renhization of such a project was likely to be effected in the near future, and are very much pleased now to state that such is the case, and that the scheme is now under adviscincist by a roan who has individually the capital to accomplish the work. We refer to Governor Stanford. The feasibility and advantages to be derived from this work was first presented to the railroad magnate by Cubinel C. H. Larrabee of railroad magnate by Colonel C. If. Larrabee of this city, and as a result of his interview Mr. Clements, the consulting engineer in Mr. Stanford's employ, was sent here to take a view of the ground and make a report. If this report is favorable, an engineer will be sent into the field to make a cectucial survey. It is, beyond the slight at doubt, a practical scheme, and we are therefore satisfied that Mr. Stanford will inaugurate and except the work with the same percey and widthy that cute the work with the same energy and widlity that have attended his other enterprises.

#### NEVADA COUNTY, CALIFORNIA.

This is the other of all the mining counties of the State of Culifornia. It has a middle situation in the State, but is generally ranked as a northern county. The whief industry is mining, although farming is carried on with profit in the western portion of Nevada county. No equal area in the world that produced more gold than has Nevada county, and no region known has the promise of an equal mining permanency. The gold is found in both quartz ledges and gravel leds. Nevada and Grass valley town hips are the principal portions in which quarks mining is curried on. Eureka and Washington townships, further cost and higher of altitude than the first two named, have also many valuable quartz ledges. The mines in Grass Valley and Newada townships have been systematically worked and developed for many years, those of Washington and Eureka have received but little of the proper kind of attention. It will not be many years before deep and paying mines will be developed in the Washington and Eureka townships. Messlow Lake has also meny quartz ledges, which, in former times, attracted so much attention that a city was built, in almost a day, near the very summit of the Sierra Nevada. The Meadow Lake mines are idle now, and time cloud will tell if the ledges there have gold sufficient to cause mines to he made. Rough and Ready township tes many gold-bearing quertz ledges in its castern portion, while in the western part are valuable deposits of

The great gold gravel region of the county is in the townships of Bridgeport, Bloomfield, Eureka, Little York, and Washington. These are of immense extent, and of incalculable richness. These heds are worked by the hydraulic process, for the most part, and enormous values of gold are annually washed out of them. There are some gravel mines in Nevada, Graza Valley, and Rough end Ready townships, but they are not extensive cepting at Mooney Flat in Itough and Ready. where is the extension of the famons gravel leads of Timbuctoo, Smartsville, and Sucker Flat.

The most famous of the present active quartz mines are the Idaho, New York Hill, and Empire, These are divisiond payers at the time of this writing. One of them, the blates, paul on the first Moaday in Dicember, 1882, its 162il dividend. The mine has produced over \$6,000,000, and has kept in constant employment, and at three-dollars a day wages, a large number of meu. The Empire is the oldest of all the mines now working in this State, and it, as well as the Idaho, gives promise of indefinito continuance. The Allison Ranch, North Star, and some others that were celebrated as gold producere in times past, will soon be worked again, Cheap water-power, for machinery, will cause those mines to resume, and the weter power is coming within a few months after the issue of this publication.-Grass Valley Tidings

#### COST OF HULDING AMERICAN SHIPS,

In giving testimony before the Congressional Shipping Committee, in regard to the cost of iron ships, John Rough stated that he had just taken a contract for building a first-class iron ship at \$65 per register ton. This ship. we learn, is to be built for Wm. H. Sturbuck for the Pacific trade. Her dimensions will be 1,800 tons register, 3,000 tous dead weight capacity; length, 214 feet; depth of hold, 23 feet; breaith of benin, 42 feet; and draft, 21 She is to be ready by about April. understand that the now wooden chips Wm. Starbuck, Henry Villard, Astoria and Mount Washington cosl Mr. Sturback and his co-owners about \$55 per ton ready for sen, and this is about as low a figure as the best Maino builders are willing to take contracts. If it costs but \$10 per ton more to build a first-class iron ship than a first-class wooden one, the iron ship is decidedly the changer vessel, for the average life of a wooden ship is pretty well known, whereve the life of nu iron ship has never yet been ascertained. The cost of a first-class British iron smiling ship is about £12 per ton, or but a tride less than Mr. Roach has just contracted to build one .- N. Y. Shipping

#### STOCK-RAISING,

There will be large miditions to the area of alfalfa seed this year. Everybody engaged in agricultural operations proposes to exert himself to that ead to operallons proposes to exert himself to that ead to the utnost. There are about 400 sections of first-class alfalfa land in this vicinity, and we hope the day is not far distant when it will be seeded and devoted to freeding the steels. This would furnish constant employment to at least 12,000 ments and their distancements show would make of Bakersileld and Summer large and prosperous towns. There is no hustness more profitable than stock-reising in places adapted to the husbross, as this is in a researchable degree. Stont-minute, as it already is markable degree. Stoot raising, as it already is and will necessarily continue to be cursued here, will halfd up a more prosperous, if not us gopu-lous a community, so theoretical farming.—Bakers-field Californian.

#### CALIFORNIA FRUIT IN IOWA

The sevenicenth nannal meeting of the Iowa Horticultural Society will convone in the city hall to-day, and continue until Friday evening. Mr. E. H. Callons, of Burliagum, one of the most promi-nont fruit-growers in this State, is in the city. He has just returned from a ton moull's tour of the of California, where he has been in search of a notlection of the fruits of that Shite.

These fruits, which are on exhibition at the City Hall, and which remain up to and during Friday of this week, with one exception, were grown south of the Sierra Madre Range, and came from Los Augeles, Santa Ans, Orange, and San Gubriel, in Los Angeles county, from Outurio and Biverside in San Bernsrding county, and from Sun Diege. The fruit consists of oranges in considerable variety; lemons, limes, Japanese persimmons, apples, and raisias.

The exception referred to, is a box of oranges

grown neer the footbills of the Sterra Nevada range in the great San Josquin valley, 270 miles north of Los Angeles, and about 20 miles cast from Fresno in a section popularly considered unfit for orange culture, on account of climatic conditions being unfavorable. With commendable zeal, W M Willisms, Esq., the popular nursery-man at Fresno City, wishing to see his section of California repre sented with its fruits at itus acceting, took upon bimself the trouble and expense of procuring a box of oranges, grown twenty inlies from his home, which he prescuted as a part of this exhibition, We deem it proper that the public spirit manifested by Mr. Williams should have this recognition at our hands.

We learn from Mr. Calkins that the orange brought on by him were not specially selected for exhibition, and are no better in any particular than are offered for sale daily in any quantity up to car-Indeed some of the most prominent growers felt very retuctant about sending their fruits out for such purpose before heing fully mature. We therefore bespeak for these fruits which heve come to ue from the farther side of the continent, that their immainre condition stull not cause them to be misjudged,

Neither the lemons nor limes will suffer when compared with those grown in the most favored climes of Europe. They are the equals of the best grown in Southern Spain in size, acidity, and leisderuess of texture,

Mr. Celkins thinks ho has samples of raisins, taken at random from the packing houses of the growers that will not be put to the blush when placed by the side of the finest Malagas imported into this country. In this matter Californians or press s willinguess to have their productions Judged from the basis of the finest Malagas in the land.—

PLANTING TEN ACRES FOR A HOME. An experienced horticulturist writes to the Rural Californian as follows

Just for home use, an ecre or two should be planted to e miscellaneous assortment of best varieties of fruit trees and small fruits; I would say 50 applo trees, two-thirds wrater varieties; 25 peur, varieties ripening in succession; 50 peach, commenoing with the earliest, and coding with the latest; 10 each of acctaring, printed, aprient, and fig: five English walnut, tivo Italian obestunt, ten hadded orange, five hudded lemon, two lime; nue fourth acre to blackberry, ruspherry, currants, and strawberries; rooted grapes for the bible, carefully selecting the hest varieties; also a few dozen s onds for profit. I would plant the remaining eight acres es follows: Two and one-half ecres to Royal and large Early apricol; two and one-fourth acres Bartlett and Winter Nollis pear, principally Bartlett, one acre of host cauning varieties of peach; one acre to French and Hungarian prunes, about equally divided, and an acre to least builded varieties of orange and lemon, two thirds orange

Without entering into the argumentative merits of the shove, I believe those who plant about as thus indicated, will have no cause for regret.

#### A PROSPRIOUS COUNTY.

We can not see anything but a prosperous fulure for the imhistrious and jutelligent furuners of this county, and especially for those who are possessed of prignted lambs. The steady and reliable market for verents of all kinds, for corn and benne; for gropes and all kinds of frails, fresh, drawd and enamed, the increasing price of boof, pork and malton; the high price of hops, and the open market of the world for our wines and our brandy, invite the zerlous efforts of the tilters of the soil to join in reaping the gubben lorvest. With its vest enpubility in the production of these articles, Fresno county must continue to invresse in population and wealth and prosperity. But our farmers should diversify the tarming. Every farmer on an irrigated truel can mise a comple or mere neres of ulfulfa, and with its product keep a lew head of cows, horses and hogs. In this particular they have been very negligent.-Fresno Expositor.



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This tand has just been purchased at a low price, in a large body, for each, and subdivided into twelve tracts, and is offered for said in lots to suit, at reasonable rates, to give a quick return on the investment. Part of the land, priced at from \$35 to \$31,50 pc

#### HEAVILY WOODED,

And on accurat of the shoulance of the winter rates can be firigated from the Santa Ana River directly and without the weerstly of purchasing water slock, which can be had at Stt. 15 per acro. The most succonstitt Vineyavillata irrigate only in white

#### TERMS:

holf Cash; Bolance, One and Two Years; Interest, 8 per сень реганции.

All the fact is in the Rumrho Samilago de Samin Ano, widel extents from the mountains to the sea, outing one had of the categor of the Samin Ann River, at the nerthern boundary, and contain ing the domisting solithenests of Grange, Samin Vin, and Physin Chy The Orange raises take the disc premium wherear entered, even at 3 flicerable Pair. Apply 19

M. L. WICKS,

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#### SENSIBLE ADVICE

From the San Bernardino Times we take the following:

In the early days of California, when people come here to find their fortunes in the mines and return home to enjoy the fruits of their labors, land was very chrup. Few cared to engage in farming or fruit raising. The process of making money in that way was, for those days, too stow. Now and then some hardy pioneer, lured by the mildness of the climate, cast anchor, and demonstrated that the valleys and plains which, in animer, presented so dry and barren an appearance, were nud astonishingly productive. most fertile The profits from forming were good and cer-Land began to look up and has steadily, with few interruptions during dull times, been firm and on the upward tendency. We might say, truthfully, that the day for cheep lands in California, at least in localities that are at all desirable, has passed. In hunting up new homes, a great many people make the mistake of selecting localities that are for advanced, in regard to both improvements and population. If a business locality is sought after, the mistake is made in selecting a town that has already grown loo large. Business is generally overdone, and property already advanced far beyond its real value. The cream has been skimmed and you are left to take the milk at fabulous prices. You are compelled to fight the cut-throat battle of competition. Or if farming or fruit raising is the occupation in question, the land has already renched a price that requires a small fortune to purchase and improve. Many are averse to pioneering it. But it is just where the mistake is made. Where a new place is selected and all the work of building up and improving is beyond the purchaser, there is every advantage in his favor. The enhancement in value of property, the increase of business and the many chances and means of making money outside of business, all tend to induce a man to choose a new place; and especially if that place is sur-rounded by a country well watered, with thousands of acres of the hest of soil, where every feature of the country is inviting, where every prespect is most promising. Just such a place is to be found in our own heautiful valley.

#### VALUE OF MANUFACTORIES.

The following, from the Chico Enterprise, will apply equally well for many other interior towns in the State:

Some weeks age we took occasion to nrge npen our readers the necessity of encouraging parties from abroad in starting manniacturing industries We showed the advantages that follow such communities in the increase of skilled labor, the money put in circulation and kept among the merchants and dealers in productions both raw and mannfactured, the demands for houses being fellowed by the increased scrivity in kindred trades, and the general utility of every legitimate local industry. It can not be disputed that Chice is admirably placed for a number of such institutions, having a splendid supply of water-power, that needs but a moderate outlay of capital to be equal to any demand. The agricultural resources of the anrounding country have been proven superior to many pertions of the State, and until some other means of employing both labor and capital are found, the growth of our town will be, in a great measure, retaided. Agriculture alone never can make a flourishing community. hat combined with legitimate manufacturing industries, is almost certain to succeed. We hope our citizens will be altee to their interests, and strive to get some enterprising men with capital to come here and start in business.

### A FRIEND TO THE ORANGE TREE,

The subjoined article, taken from the Guardian, a Florida paper, will be of interest to these of our orchardists whose erange trees are infested by the We find that the troubleseme scale insect that

has proven so destructive to erange trees has an nemy, in a very small, wingless bng, of an ugly dirty color, similar to that of the scale insect, ce ered with minute prickles all over, and when louked at through a magnifying glass resembles a cockleburr when it is dried up from old age. They begin their work at the base of the tree, and move along slowly like ducks or geese, intil they mow off every particle of the scale, and then the tree is perfectly clean and smooth, as if it had been acrubbed. Before we found out the "mission" of these little bugs we went about destroying them by "droves," feeling that we were getting rid of an orange pest, until we were shown a couple of trees in Capt.

Prosen's yard that had been thoroughly cleaned by
the "misson bugs," for we do not know a better name for them.

#### A CALIFORNIA BORSE FARM.

Ex-Governor Leland Stanford's breeding farm, for horses, at Palo Alto, is one of the most complete establishments of the kind in the world. Of the I,700 acres in the place 100 are occupied by the stables, harus, and small publicks. The buildings, at the foot of a gentle rise of ground, make a small city by themselves, inhabited by a population of nearly 500, who return hither from their business on the pastures and ruce-trucks, and have 200 persons employed in their domestic service. The spacious barns are uniformly floored and ceiled up with redwood-a handsome material, which resembles cedar in effect. They are strewn with the freshest straw, and kept as nest as the most unexceptional drawing rooms.

Scions from the stock here raised, which represent the best thoroughbred and trotting strains in the country, are likely to be a most important influence in improving the breed of horses throughout the Pacific Coast. It was here that carious experiments were conducted,

mile trot to 2:25½. Last year Bonita, a two-year-old filly from Palo Alto, cut the record down to 3:23); and later, at the same trotting exhibition, Wildflower, another two-year-pld, from the same farm, made the mile in 2:21; and Hinda Rose, a yearling filly, on the same day, added to the fame of the farm, by cutting down the yearling record to 2:361 ... It is asserted that there are colts on the farm which can ilo oven better .- Harper's Magazim

#### APPLE SHIPMENTS.

The export of apples is slowly but constantly increasing, both to the Territories and to foreign ports. We now see by a Los Angeles exchange that nine carloads have already gone to Arizuna, and mere are to follow. We cannot but look upon apple-growing as one of the most promising lines of fruit-production, and whover has land and location suitable for the production of good-keeping winter apples should not be led away by the fever for other fruits, which are just now the favorites. Plant but a

at the expense of Governor Stanford, for arrivfew varieties which are known to succeed well

## CHINESE MERCHANT, SAN FRANCISCO.

horses, by photographing them in rapid mo-The photographer, Muyhridge, of San Francisco, succeeded, by an ingenious arrangement of electrical wires, communicating, at the louch of the animals, with cameras already preparal, in securing twelve distinct views of the different stages of a single stride. tuiles are of the most unexpected and curious sort, some of them highly comic.

Great pains are taken in the raising and truning of the young colts. From the time of fooling they are handled gently and constantly, and are made as familiar with the lonch of horness as they are with that of human bands. As a natural consequence, they are perfectly tame, gentle, und even uffectionate, and never need breaking. The effect of this system of training has been apparent in the performances of some of the colts which have been publicly speeded against time. The first notable exhibition of speed by a Pulo Alto colt was made on the Buy District Association track at San Francisco in 1880, when the two-year old colt Fred Crocker lowered the record for a one hetter.

ing at a better understanding of the speed of | in the region and sell well in the market | Keep a constant lookout to keep the noxious inscrits in check, and, our word for it, a good-bearing apple orchard will be as comfortable a property one can desire. But don't plant in the wrong place, and don't neglect the frees-either course will lead to disappointment.-Rural

#### THE PRYLLOXERA.

The Los Angeles Express says: While the phylloxers may trouble vineyards in parts of the State where irrigation is not used, geles county is sufe from the pest. Irrigation, as practiced here, is a sure preventive, and should any of the vine destroyers be introdured, cold water will "get away" with them. With the failure of the vineyards in France, it would seem as if our success us a grape and wine country was assured. With a soil that will, under ordinary outtreation, produce nine tous of Mission grapps to the acre, we need not fear competition. There is no sell in the world equal to ours, and no climate that is

#### FISH FARMING.

There are but few persons who realize Low much can be made by "hab farming." acres of ground, up attesion well and a few goed fish, and one has, in a short time, a business that he ran rely on. While traveling in Contra Costa county, we made the acquaintnuce of Mr. C. Dickenson, who for several years has devoted his time and attention to raising fish. Mr. Dickenson has a small farm of about twenty acres, near the town of Concord. About four years ago he made up his mind to experiment a little with the mising of fish. The first step was to sink an artesian well, at no very great expense, and then dig out and arrange floedgates to two or three pounds. The next was to sterk these pouds. The fish that he selected was the European or German rarp. As he could not obtain any of this species in this country at the time, that were fit for breeding purpose, he sent to Germany, and after much trouble and expense, succeeded in introducing to the waters of his ponds about eight fish that averaged about five uches in leugth. This was four years ago, Mr. Dickenson has increased the size and number of his ponds; he now has five pends that average 60 feet square, and these five pounds contain about 6,000 carp, that inn from three fearths of a pound to fifteen pounds in weight. He has also stocked the three nonds at Kimball's Island, near Autioch; these small bodies of water centain about 3,000 fish. Mr. Dickenson says that the cost of kerping these fish is very small; what a dog would cat will feed a large number of fish. The breeding ponds ought to be shallow-not more than twelve to fourteen inches deep-with sloping bruks and mud bottoms. Carp require a mud bottom in order to do well, and many persons suppose that these fish are not fit to eat as they taste of the mnd, but this objection is easily overcome by putting the fish into a small pend or tank with a gravel bettom and rauning water a few days before putting on the table. By this means the minddy or earthy flavor entirely disappears, and a very fine flavored fish is had, the liest size for table use is about two and one-half pounds; those weighing about twelve or fifteen pounds, though good eating, are rather course of grain,-S. F. Breeder and Sportman.

#### SILVER ORE.

Beyond any sort of doubt there is a large silver-bearing belt a few miles to the north of us. Crude tests by various persons, at different localities, clearly establish this fact. But whether tt exists in paying qualities or not remains to be seen, and the near inture promises to practically demonstrate this point. Hen. Thomas Wren, of Eureka, Nevada, a well known capitalist, together with W. M. Keefer and D. H. Watson, have been sugaged in developing a property on the North Side about two miles south of Garden Valley (old Johntown), which has now a most promising appearance. are opening two separate lodes, the General Mead and General Grout. On the General Mead a shaft has been sunk to the depth of 34 feet, at which point an analysis of shows \$4 in gold and \$7 in silver, and ten to ufteen per cent, copper, A tunnel has been started to top this ledge at a depth of 100 feet The General Grant is an immense ledge, goldbearing, apon which a shaft has been sunk 30 feet, where a cross-cut shows a veiu 30 feet wide. Of course this is not high-grade ore, but it is claimed that it prospects all the way through. We are well pleased at the brightening prospects of Keefer and Watson, and hope they may both realize ample fortunes as a soluce in their declining years. - El Durado Republican.

#### LAND SALES IN BUTTE.

The Oroville Mercury suys: In our notice, revently, of the land sales in Hamilton township, we omitted to mention 240 acres near Biggs, sold by the Bunk of Chico to Barney Bushott for \$35 per acro; a tract of the Spring Valley land, containing about 27,000 acres, six miles worth of Biggs, for \$75,000; a tract of 210 acres sold by the Capital Savings Bank of Surramento to John Fisher, for \$25 per acre; a truet of 640 neres of Spring Valley land, near Biggs, to H. Cohn for \$25 per nero; o truct of 160 mages by Henry Postpen (terms private); a tract of 340 mages by the Spring Valley Company to Fred. Ninderman, for \$25 per sere, making the total of recent sales \$166,300, instead of \$40,000, as reported last week,

JOHN P. H. WENTWORTH.

EDITOR AND PROPRIETOR.

#### PUBLICATION OFFICE:

No. 320 Sansome St., Halleck Building.

ISSUED MONTHLY

SAN FRANCISCO......FEBRUARY, 1883

#### READ AND CIRCULATE.

When you have rend this paper preserve it and lend it to your neighbors, or send it to some friend in the Rustero, Westeroor Southern States, Causdo, England and Continental Europe, who will value the information it contains, and might be likely to come or send intelligent, industrious farmers in actio in California.

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#### OLIVE CULTURE.

We reproduce the article on alive culture, by the late B. B. REDDING; and for two reasons: First, because it is one of the most instructive papers on that subject that can be found. Second, because we have had so many requests from subscribers for a copy of the paper in which it was published, with which we could not comply, the edition, long since, buying been exhausted.

#### PERSONAL.

H. P. STANWOOD, Esq , leaves, in a few days, for the City of New York, where he will fill the position of General Agent of the California Fast Freight Line. Mr. Sisuwood leaves, in this city, a large circle of warm friends, whose good wishes he takes with him to his new position.

#### WELCOME BACK.

P. G. Bram, Esq., after an absence of four years, has returned to the city, and has taken charge, as General Agent, of the business of the Chicago, Burlington, and Quincy Railroad Company. Mr. Benm is a gentleman who is known in Sin Francisco, and has a host well of old friends, who give him a hearty welcome back to old husiness associations.

#### PETALUMA LAND AND REAL ESTATE AGENCY.

The firm of Mesars, Geo. C. Young & Co., in Petalama, does a general real estate business. They have facilities for furnishing to itomigrants desirable small tracts of land, suitable for all kinds of fruits, vines, etc. They will sell such lands as chenp as they can be purchased from the owners themselves. Title in all cases perfect, and terms made casy. On application they will furnish printed lists with descriptions. They have the finest vegetable and grain lands to be found in the State.

## A DESIDABLE SECTION.

We learn from our exchanges and correspondents that some of the southern countles are rapidly filling up with elegant homes, by wealthy people, whose delicate health campot stand the rigors and changeable character of the climits of some of the Atlantic States. They find the climate of California for preferable to either Plerida or France.

#### THE RESOURCES OF CALIFORNIA, ONE OF CALIFORNIA'S CHIEF RECOM-MENDATIONS

It has been said by many that our climate is more valuable than our soil, as highly as the lutter is prized. And this statement is probably As an illustration: If the States of lowa and Minueso'n had California's climate, their lands, that range from five dollars to sixty dollars per acre, and which are acknowledged to be as rich and productive us can be found on this continent, and perhaps in the world, would become many times as valuable as they are now. A distinguished traveler recently said, in the course of a lecture, that our climate is an insurance against tornadoes, grasshoppers, mud dogs, lightning, sunstroker, and sweeping epidemics. And he might have added, very approprintely, that it is also an insurance upon live stock, and against the hardships and expense of an inclement wruter. In fact, climate is one of the main sources from which our prosperity flows, and is to continue to flow. Our climate nuckes cheap homes, for buildings can be constructed that will maswer every purpose, for a much smaller sum of money than in colder climates, There is no doubt but our vast area of territory, with its very desirable climate and productive soil, will attruct emigration, which has not yet begun to flow. The wealthy will come for the indulgence of climate and physical comfort, and invalids for their health. Oue of the charms of our climate is, that it is so happily tempered, between the extremes of heat and cold, as to stimulate, without overpoweriug, the human frame. There, are ju our State, more days in the year on which a man ean work with comfort, outdoors, than in almost any other country.

If there be any residents of California who are discontented with their lot, or who sigh for a return East, to their former homes, let them revisit their places of birth or early residence, if they would become disenchanted of their recollections. Let them spend in New York a drizzling spring, a mouth in burning summer, n period in cold and blustering autumn, or endure the rigors of a dreadful winter, and we think they will return to California, thinking it God's best country. Everybody should go East, upon a visit, for it is a sure cure for grombling and cronking against California.

We, who have resided for years in California, can hardly realize the extreme cold, the great depth of snow, the terrible storms, cutting off communication for days, and sometimes for more than a week. With everything dressed in green, and flowers blooming around us here. we do not realize how terrible the winters are east of the Rocky Mountains-not even when we read the particulars in the public press. While everything is buried in linge snowdrifts at the East, in the same latitude with Culitornia, here furmers are plowing and putting in grain, and early sown crops are growing luxuriantly. "Why," in the language of another, " will people choose to live in a climate where it requires six months' labor during spring and summer, to keep them the other six months of sterile winter, when a great empire of God's country lies within six or seven days' ride? A great empire flowing with milk, and houey, and wine, fragrant with orange groves." the same amount of labor expended upon the sterile farms of New England, a family could make an eartbly Paradise of a farm in Culifornia; and, above all, escape the terrible winters of the Atlantic seatourd.

It is gratifying to learn that California is becoming both a winter and summer resort, for a large class of neople, who are only desirons of stopping a few months. Such sojourners become attached to the State, and many of them settle here permanently. This class of people are very valuable, for the reason that they are well supplied with means, which enables them to select localities that and them best, after looking through the State. Several of the large hotels of San Francisco and the interior have many of these people from abroad, as guests, who are spending the winter here, And it is a sufe calculation to make that twothirds of them will, after returning to their homes, conclude to settle up their uthirs, and come back, and make permanent homes in the State which they have learned to love so well during their brief sojourn in it. This has been the case in the past, and we see no reason why bumporary sajourners will not continue to purune the sume course. To our mind, there are sufficient reasons why they should return here. himt of him of his a general rule, the class that comes to Calisan't thom,

fornly, on a tour of observation, is composed of men possessed of great foresight and sagacity. They readily observe that there is more prosperity and more rapid development of the resources of our State, in proportion to the number of inhabitunts, thun can be found elsewhere, Consequently, it is very natural for such men who have traveled in many hands, to arrive at the conclusion that there is me other community which will compare with the Gablen State, in point of climate, richness of soil, and putural advantages for great business enterprises. In our judgment, there is no other Stute that holds out so many inducements to iminigrants with some means, strong hearls, and willing hands.

#### CALIFORNIA PRODUCTS AND TRADE IN 1882.

The following, taken from the Commercial Herold's ununal trails review, shows a remarkable exhibit, and attests the growth unil prosperity of California:

Culifornia production of wheat in 1882 32. 000,000 hushles; wheat and flour exports in 1882, 21,635,906 centals; wheat and flour exports for 26 years, 168,131,980 centuls; domestic exports by sea for last twelve yours-wheat, word, wine, quicksilver, etc.; \$317,186,395; barley crop of California in 1882, 9,000,000 linetiels; sugar imports fer 1882, 106,445,600 pounds; California beet sugar product in 1882, 1,000, 000 pounds; imports of foreign angars for last thirteen yeavs, 904,901,706 pounds, coffee imports for 1882, 21,719,912 pounds; rice imports for 1882, 51,397,311 pounds; tea imports for 1882, 21,170,616 pounds; gold and silver yield in 1882, \$80,500,000; gold product of the Pacific Coast since 1848, \$2,016,665,000; silver product of the States and Territories west of Missouri river since 1858, \$579,891,000; combined gold and silver product of the Pacific Slope since 1818, \$2,596,554,500; gold and silver exports in 26 years, \$950,201,216; coinage in Sau Francisco Miut iu 1882, \$37,915,000 coinage of Miut from 1851 to December 31, 1882, \$709,128,750; merchandise export values by sea in 1882, \$55,752,428; combined exports of merchandise and treasure (exclusive of merchandise by railroad) in 1882, \$66,135,732 federal revenue at the port of San Francisco in 1882, \$13,143,553; Inmher receipts at this port in 1882, 264,698,814 feet; domestic coals received in 23 years, 4,750,700 tons; wool clip in 1882, 40,000,000 pounds; product of wine for 1882, 10,000,000 gullons; tonuage movement of the Central Pacific Rulroad in 1882, 5,027, 733,000 pounds; freight movement of the Southern Pacific Rulroud (Northern Division) in 1882, 571,835,229 pounds; quicksilver product in California in 1882, 50,820 tlushs; value of manufactures in San Francisco pa 1882, \$100,000,000; sale of real estate in San Fraucisco in 1882, \$15,127,750; increuse in immigration in 1882, 39,529 souls; banking capital of the State, \$175,000,000.

#### DIGULY GRATIFYING.

We are gratified, beyond measure, to learu, through the press of the State, and other sources, that there is a general disposition to receive the newly-arrived immigrants favorably, by aiding them in obtaining farming lands, and getting employment. We also note with antisfaction, that, while a hearty invitation is being extended to immigrants, they are given plandy to understand that thrift and industry are the only efficient guarantees for success

Active steps have been taken by leading citizens, in several localities, to supply immigrants with all needed information, on their arrival, County associations have been formed for this purpose. It is a matter of general congratable tion that a large percentage of the new comers are of the most desirable class, and me possessed of means to purchase property; and the benefits to accrue, both to them and the State, from their settlement mnong us, are inculculable. To direct these people to suitable locations, where huds, within the reach of their available means, may be seenred, and where enterprises to which they are adapted unnit their energy, is the work to which are acquainted, should upply themselves. it is the mission of Tite Resources to truthfully guldish the facilities and advantages oftered to settlers by every section of the State, we think all who perusous columns will readily find locations where they can sugage in the hind of lutslness or occupation that will last

#### THE FORESTRY CONGRESS,

The recent Forestry Congress, held at Cinmunti, Ohio, was attended by many men, who have given much attention to the subject From Eastern journals we learn that President Loring, on taking the chair, delivered a well, prepared address. After giving historical sketches of ornamental tree planting, land. sempe gardening, and the history of remarkable trees, telling of their significance and their he concluded un follows:

" I trust, therefore, that to this and all other associations dedicated to the work of preserving and restoring our vast forest wealth, and of beautifying the earth on which we treat, the people of this continent will extend a grateful heart and a helping hand. In conclusion, let me arge upon this association the most careful consideration of the topics before it-the use of forests; the influences, injurious and beneficial, of forests; the educational means by which we must become acquainted with forestry work; to what extent can the land owner enter profitably upon the business of tree-planting and forest culture? What legislation can the States hest adopt for the increase and preserva. tion of their forests? How shalt the General Government provide for the planting of forests on its public lands? What is the precise er-tent of forest waste? What is the comparative value of various timber trees? How shall we secure wind breaks on the prairies? By what chemical process can we preserve our timber used in building and fencing? And what forest trees are hest adapted to various localities? These are questions which should be answered as definitely as possible. They are questions which the American people are auxious to have answered, and before which all discussion of foreign legislation, all consideration of the value of wood products, all statistics of trade. all study of land tenure, sink into insignifcance. I trust the deliberations of this convention will point the way by which these problems can be solved, and by which our vast forest wealth will be economically preserved. and profitably used."

The New York Herald, in commenting on the above, says:

The rapidity with which our woods and forrsts are disappearing is alarming. wondrous development of the country very heavy dratts are made on our timber producand the consumption is far in excess of the natural supply, or what must be the supply of the future. The statisticions who have turned their attention to the question, assure us that the computatively trifling industry of the making of shoepegs alone requires 100,000 cords of soft maple; lucifer mutches demand 390,000 cubic feet of piue; lasts, hoot trees, and tool handles call for 1,000,000 cords of hireh, while the burning of bricks consumes 3,000,000 cords of wood, of various kinds; 300,000 new telegraph poles are erected annually, and in addition to all this there are houses to be built and railroad ties to be laid. The question in a mere material point of view is, therefore, of prime importance. If the cutting down of trees is the rule and the planting the exception, the sooner so great an error is rectified the better.

#### A PRODUCTIVE COUNTRY.

We not unfrequently receive letters from the East, from parties who contemplate coming to our State, in which they ask what sections of it are the most productive. Now, we cannot undertake to answer, in detail, such questions. Our journal gives, in each number, a reliable account of the climate and productive capacity of the soil of every heality, compiled from our exchanges, in their respective localities. Comsequently, our correspondents, after reading The Resources through, have as much informution as we have, concerning the State; and they have the some means of judging where the best partions of it are to be found. We can only say that California is a wainlerful State inhipited to the enlipsution of planost anything that will grow in any alimate or country; and the greatest marvel to strangers, after visiting it, is that it is not already fitted up, to the extent of its enquicity, with softlers. But, when it lincomes better known in the East and Europe, it will rapidly do so with a desirable Plans of people,

#### VINEVARUS.

The acrenge of vineyards in San Bernardine county is being largely mercased.

#### THE MISSION OF THE 40ors.

[Written for THE RESOURCES OF CALIFORNIA.]

Party years ago but little or scarcely anything was known of the great region lying between the Russian possession and Gulf of Mexico, north and south, and from the Missouri river and Pacific Ocean, cast and west,

Lewis and Clarke had followed the Columbia, from its source to its mouth, and once in a great while a trading ship called in at the village of Yerba Buena, on the bay of Sau Francisco, while the larger portion of the section I have alluded to, was designated on the map as the Great Unexplored Region.

About this time, Joe Smith and his brother, Hirmm, discovered, or al least pretended to have discovered, the Silver Plates the inscription on which formed the substance of the Book of Mormon, and basis of that religion.

The new doctrine found many adherents, enabling the Smiths to erect, soon after, the Grent Mormon Temple at Nanvoo, which was supposed to be, in many respects, a fac-simile of that built ages before by King Solomon.

The people of Illinois, however, could not endure Mormonism and, rising in their majesty, drove the whole sect out of the State, shooting Joe and Hiram, as they were attempting to escape through a mindow of the temple, and burning that edifice, if I am not mistaken, to ushes.

The next stand was made in Mistouri; but the doctrine of from two to twenty wives for each man was too strong a dose for the average citizen of that State, and they were lold in bomeiy, but very emphatic frontier language, "To git up and git," which they did at once, crossing the border in short order, and fleeing to Salt Lake, firmly believing they were so far removed from civilization that their troubles were at an end, and from henceforth they could enjoy the pleasures of polygomy free of interference from the outside world.

Just about the time they reached their destination, the war between the United States and Mexico broke out. It hasted two years, resulting in the acquisition of California—which this country gained, first by conquest, and afterwards by absolute purchase.

Scarcely had the treaty of peace been ratified, and the money paid over, when Marshall made his great discovery of gold, in the tail race of Sutter's Mill, at what is now known as Coloma, on the south fork of the American river, in El Dorado county. The news spread like wildfire, the inhabitants flow living in California leaving everything behind, and rushing headlong to the "diagnags."

In the time the news reached the States east of the Missonri river, which was followed by an excitement that completely overshadowed everything else; the gold names becoming the one absorbing topic, on all occusions, and in every place; nothing like it ever having been known before.

Companies were formed, ships placed on the route, and during the first five months of 1849, 150,000 of the most energetic young men that ever existed started for the new El Dorado, some by steamer, others via. Cape Harn, and the larger number by way of the plums, all reaching here by the end of the year.

To my mind, these were the men chosen by Almighty God for the express purpose of discovering, and making known to the world, the mineral resources of the vast section extending from the Missouri river to the Pucific ocean, cast and west, and from Alaska and the Russian possessious to Mexico, north and south.

Having arrived in California, nothing could stop their progress. With no knowledge of the country, and no capital, except their own energy, the most stapendons onterprises were undertaken, and never before had such grand setivity trees witnessed, the actors seeming to be inspired by something far above mortal spirit. Rivers were drained, in order to reach their galden treasures, and shafts were snuk through the solid rock 1,000 feet. Tunnels were driven ioto the very bowels of the mountnius, and roads ent out f the almost perpendienlar soles of mighty precipiess. Chasms were bridged, and frees twenty feet in dometer ent down, and made to vanish like chaff before the wind; this peerless leady of men to coming as army of prospectors that penetrated every nook and corner in California, disservering gold in every direction and then crossing the Sterros, holding up to view the wonderful vein of silver, known as the great Comstoch Lade.

Since then they have traversed the whole sertion I have described, prospecting, discovering, coss of the Union arms, in the great war, been and one-half to one and three-fourths miles in coss of the Union arms, in the great war, been

and opening up the seemingly unlimited mineral deposits of this great partion of the West ern continuat.

It is a common thing, now days, for people to speak succeingly of the '19ers. Scarcely, under any circumstances, could more ungrateful words he ntiered. Most of them laye passed away, and, in many cases, their bones lie bleaching on the hill tops, and in the valleys of the localities they sought to develop.

They toiled and spout their lives that the utillions, who came after them, might reap; and like all such pure, unselfish natures, scarcely any of them ever secured so much as a mere pittance for themselves; and the historian of the future, will surely place them in the same category with the immortal haml which landed on Plymouth Rock in 1620.

Culifornia was then nu nuknown country, in the strictest seuse of the word, and if one of them had died, and immediately found himself the inhabitant of another material sphere, the difference in the two situations could not have been more striking, than that between this State and the section from which he had emigrated.

Everything was an experiment, and the '49er had to bear the whole brunt of the battle; it has taken all the years that have intervened since then to discover what we now know of the mighty resources, peculiarities and great possibilities of this brightest star in the grand constellation of states which form the great American Republic.

The immigrant who comes here now takes no chances whatever. If he wishes to plant a vineyard he can determine, at once, just where to locate, the kimi of land to select, and most desirable varieties of vine to set out. Should he desire an orchard, the same remarks are equally applicable. Every problem has been solved; and what to raise, where to raise it, how to sell, where to sell it, what to ship, how, where, and when to ship—all are perfectly understool, and the 49ers are the men to whom we are indebted for this knowledge, which has cost untold millions.

Till within a very few years, all our principal industries have been failures, or at least problematical, and immouse fortunes have been such in experimenting, getting them on a paying basis, and bringing California productions to the high standard they have attained.

Thruly believe that the "hand of God" is visi-

I firmly believe that the "hand of Goil" is visible in all this. Nothing hat boundless Wisdom could have conceived such a plan, and nothing less could have accomplished such mighty results. Had the Comstock Lode been discovered previous to the gold of California, it could not have been worked, as there were no means of transporting supplies and machinery over the mountain regions and trackless wastes between it and the East.

No sooner, however, had the fact heen charly demonstrated that it would pay, than one of the finest mountain roads ever constructed, in any age of the world, was built across the Sierras, from Placerville to Virginia City, over which the heaviest ten-mule team could pass, and at the same time, if necessary, the finest Concord coach, back or buggy; while the foundries and workshops of San Francisco were fully able to furuish every particle of unachinery that was needed, thus rendering the the working of it a computatively easy matter.

The finding, or alleged finding, of the silver plates, by Joe and Hiram Smith, was the commencement of this great plan, the Mormons unwittingly establishing a half-way-house at Salt Lake city, for the great immigration of 1849. The Mexican war was the next factor through which we acquired California. came the gold discovery of Marshall, at Sutter's Mill, which completely revolutionized the commercial world, and formed a new era in Ameriean civilization, at the same time being the Almighty's method of producing the army of prospectors, who were destined to become His agents for the development of the great mineral region of the western portion of North America. To my mind they were fully as much so as were the twelve Apostles, and whoever mimits Divine agency in the one case, must do the same in the other, or also be guilty of great inconsist-eucy. Then followed the vast immigration of 49, which, as I have already stated, was compused of the most splendid body of men the world had ever known, and, but for whose denutless, superhuman energy, the Pacific Slope would have roundined, to this day, a

very questionable, as it probably could not have been carried to a successful issue but for the withhold an amount of pure water, at an elevation gold from the minrs of California. width, with a maximum depth of 300 feet—would withhold an amount of pure water, at an elevation of 4,800 feet, equal to 6,902,603,712 gallons, or

Finally, view the whole subject as we may, twist and turn it in every confeivable manner, and still the "hand of Almighty God plainly visible, and in the not far distant future, when the region I have described shull have become a mighty empire, the State of California attained to a population of ten million people, this fair city, the largest and proudest in all the world, stretching over the peninsula as far as San Jose, the unpredjadiced historian of that period will sum the whole matter impartially up, and then will the whole subject be viewed in its true light, the merils of the noble-hearted Pioneers recognized, the mission of the '49ers fully apprecinted, and their sacred memory be revered throughout all coming generations,

#### WATER SUPPLY.

Editor Resources of California: Dear Sir-Having just returned from repeated trips among what I term the absolute resources of California, my mind is more than ever impressed with the idea that water will always occupy a predeminant position. Any movement or action that shall tend to the irrigation of lands, now almost worthless, and give impetus to our vine and fruit enture, and to the lambs a value of from one to three hundred per acre, should be encouraged, and adding, thereby, to our future wealth as a State. The above has been called forth from several projects now in progress of development.

Not only is the irrigation of lands attracting the attention of capitalists, but equally that of providing our rapidty growing cities with pure mounfor all domestic purposes, Some of these projects have a combinative purpose, while who provide our cittes with pure mountain water are necessarily distinct, as their water should be of the purest quality of granite strained waters, while the water for irrigation, earrying alluvial silt in suspension, can be taken from the several streams that seem to have been provided by wise Providence for the especial purposes for which we deem them intended. We have become acquainted with several of these projects, ranging from Pitt river to Merced; but the are those now in active progress, with capital bethem, to render them an almost assured Among the prominent ones under consideration, as to provide the foot-hills of Bulle county water for irrigation and other purposes, which with make that county equal to the vineyards of Bordeanx, France, Another to formeh Stockton, Oukland, San Jose and other eities with the largest amount of pure granite strained water that can be obtained on this coast. obtained on this coast. As progressive mavement is being made with the latter, we will deal with that first.

Some time since, a Water Commission was organized by legislative action to inspect the different sources that might pravide a sufficient supply of pure water for the City of San Francisco, the sheds of the Spring Valley Water Company having proved scarcely adequate for even the present sup ply of this rapidly growing city in dry seasons. remarkable, that while every other system of water supply was canvassed, the Tholumne river. furnishing a supply as below indicated (owned by Mr. J. G. Divoll and Mr. Wm. G. Long, who have expended twenty to twenty five thousand doltars in improvements of their rights) and being the nearest available supply, abould have been overlooked, and not reported upon or examined by the Water Commissioners appointed by the State.

It is probable that their attention was not called

It is probable that their attention was not called to the fact, and they were ignorant of the further fact that the immense water-sheds, of 728 squaro miles, in an entirely granitic formation, consisted of a series of lakes underlying the "glacers' tying westerly and northwesterty of Monts Dann, Parker, and Whitney, and northerly of the Yo Semite domes, which were an everlasting fountain, from which pure, fresh water would flow, as long as time lasts. It is a palpable fact that they did not enter into the consideration of the Commissioners, else they would not have arrived at the conclusion that no real amount of clear water, amounting to a coutinions flow per dlem, could compete with the 13,000,000 grallons per day, (supposed to be the extreme flow of the Spring Valley Company), was available within the power of the city to obtain, for the consideration asked, far the above limited supply.

The facts are, that a reconnaissance made by J. P. Dart, Civil Engineer, (Mr. Divoll's engineer), on the dryest day of the year 1882, proved the amount of flow at Armstrong's Bridge, the head of the ditch and pipe of the Tholumne, Stockton, and Onktani Wheter Company, to be 81,388,800 gollons cach 24 hears by the river supply alone, in strange contrast with the Spring Valley Water Company. In addition to the above, one of the many available lakes, under their water-shed, Luke Ellinor, by un related and of 38 feet at the ontile—the lake being frem one and one-half to one and three-fourths miles in such with consider the three-fourths miles in

withheld an amount of pure water, at an elevation of 4,800 feet, equal to 6,902,608,712 gallons, or 64,000,000 gattons daily llow, for 108 days (covering the extreme drongut of any season), which, added to the main flow in the dryest day, would make an equivalent of 145,000,000 gallons each day of our dryest year. The amount of reserv shove estimated, viz.: 61,000,000 per day, for 108 days, is estimated by the engineer in chief, Mr. J. P. Dart, as about one-tenth of the actual reserve capacity of the water-shed, with its numerons lakes ntrolled by the above owners. Looking at these facts, it will seem strange to those interested in the water supply of California, that these facts should have been so long withheld. But when we stop to consider the vast amount of brain labor and work that must be brought to bear to bring into line, and utilize, by capital, these vast "resources;" we may be able to overlook sighted policy that has hitherto ruled, and rather congratulate ourselves that at last a system of capital, governed by "broad-gauge" men, will come in to open up these water reserves to our rapidly-increasing immigration. All the rivers first indicated in this article, are susceptible of utilization for vinicultural or fruit purposes, and the thousands of acres now unpulized wilt yet he able, with even the soiled waters of the rivers, to stand in and individually make a mark as strong as any province of France has ever made in the vino and fruit in-

The condition of the waters so complained of by the farmers, will, in the future, become an element of weatth upon the immeuse amount of now untilized adobe, or volcanic soil, with which our northern foothills are covered. It is even a question with the writer whether the acreage of the new unutilized lands, with a judicious distribution waters apoken of, carrying, perhaps, three-eights per cent, of alluvial silt (in a will not, in the near future, chaltengo the wheatgrowing interest of the vetley in acreage; because ose muddied waters, carrying the vitalizing mountain drift, will ever be, and hecom strengthening element of the aforesaid adube and volcanic soils which now lie uselessly upon our foot-hills, especially in our northern counties, where the semi-tropical fruits grow when sufficient moisture is properly applied. This is a great question, and in the near ful may hope to see the vast amount of land, now lying comparatively idle, produce the choicest fruits every kind, which, before the expiration of this year, can be canned in glass with perfection and

Our wine, our vinientlural interests, are but in their infancy. Our horticultural and other interests are rapidly advancing. I may holdly assert that in ten years, with "broad-gnage" men at the fore, our vinicultural acreage will exceed our wheat fields. Who will then speak of the "resourcea" of California in derision? I fear to longthen this article, but will come again with facts.

Ponomy.

#### TREES, GRAIN, FLOWERS AND FREITS

A writer in the Chronicle, in commenting editorially on the above heading, in a recent article, very justly says:

Culifornia has all the grains, except rice, whether they are grown in the north or south The wheat of Russia or Egypt is improved by our soil and climate. Our lawns are filled with plants and trees brought from innumerable localities. We have lilac, snowball, labarnam, and spirces from Northern Europe; cricas and tacomas from Southern Africa; mugnolias and rhodendrons from the Carolinas; and azalens from Japan; dracenas from the Sandwich Islands, palms and cistus from the Bost Indies; enemlyptus and other plants an trees from Australia, while other regions have been equally generous in their vegetable gifts. All the trees, grains, flowers and fruits that have been brought us, whether from the north, south, east, or west, have at once, and as if at home, taken root in our fertile fields and gardens, and reached out uffectionately leaf, bhule, spire, or bendril, to bathe in our sun shine and breathe our balmy air. Everything planted has grown quickly and produced lavishly fifty, a hundred, and even a thousand fold, repaying liberally the superintendence of man, and the tender care of nature.

#### LAND POOR.

Though Italy possesses 57,000,000 acres of calturable land, equal to the whole of Great Britian, and has only 9,000,000 of inhabitants dependent on agricultare abone, 3,000,000 of these are laborers, who are wretcheally poor, carning in many places less than a shalling a day, and nowhere receiving more than 18 80. They have no cottages, but herd in the small towns, die rapidly of alsonses produced by bad living, and are a permanent danger to the well being of the country.

#### OUR WALNUT CROP.

The California Grocer, of December 28th, thus speaks of the value of the walnut crop in this State:

A few weeks since we called attention to the California almond crop, and this week we touch upon the ambient of the English walnuts of California, which already occupy quito a prominent idace among our Stale productions. We are imbibled to Mr. Mesde, of the firm of Geo. W. Meath & Co., of this city, for some interesting facts and statistics in regard to this nut. It is but a few years sluce that this coast depended principalty upon Chill for its walnut swpply, but at the present time so fast has the production of the walnut increased in this State, that besides supplying our entire coast and lerritorial trade, we have become large exporters to the Eastern cities, where our best walnuts are being received with universal favor, ranking shead of all imported huls, with the single exception perof an imported national haps of the Naples, and our soft-shell walnut ranking equally with that variety. The total crop of this year is estimated by Mr. Meade to approximate 650,000 pounds, as nearly as can be ascertained. divided among the following counties: Los Augeles 400,000 pounds; San Bernardino, 100,000 pounds, Santa Barbara and Ventura, 150,000 pounds; tutal, 650,000 pounds. Ot this quantity it is estimated that not less than 400,000 pounds bayo hean marketed East, at an average price here of eight and one-balf cents per pound. Out of this price it is believed that the producer has realized from seven and one-half to eight cents per pound, at which figures a handsome margin is visible, esecially so when we take inte consideration that the walnut growers of Chili on an average do not the wainst growers of Chill on an average do not realize much if anything over two to two and one half cents per pound not for their production. While the production of this unt is chiefly confined to the counties above named it is being yearly demonstrated that many sections of the State bitherto considered unfit for nut growing are equally as well adapted to the production of both the almond and walnut as in those sections where it is no longer an experiment. The walnut which beretofere has bad the best reputation is grown at Los Nietos, in Los Angeles county, though some of the Santa Barbara and Ventura unts this year equally as good. Those known as Los Aogeles City and San Gabriel Mission walnuts, from the fact of their running uneven in quality and brightness, and being poorly filled, do not meet with favor the trade; but, as new orchards are coming into bearing, we may look in a few years for an improve-With the whole country for ment in this respect. a market, and an unlimited field in our State for their production, we look forward to the time when like our almonds and raisins, will foreign importations. That such a our walouts, like our amonds and reasons drive ont all foreign importations. That such a time is not very far off any intelligent observer will admit who notes the gigantic strides our State

#### THE RAISIN INDUSTRY

We have been at considerable pains to gather the figures of the raisin export of the Santa Ana valley ngures of the raisin export of the Santa Ana valley during the season just closed, and find that, by rail and steamer Neuport, the shipments have been 24,886 hoxes. It is probable that some few boxes remain for shipment, and the total would be easily what we said it would be early in the season 25,-000 boxes. In 1881 we marketed about 16,000 boxes, the product heing excellent. Much of the erop was shipped directly East, as has been the case with the present crop. The picking, enring and packing is dono much better every year, more care and attention leing given, and this is seeming us a good reputation abroad. In time we shall equal the best product of the Malaga vineyards, en if we do not do it now. We bave the soil and climate, and the prospect is good for this industry to assume huge proportions in our favored Santa Ana velley. We need never fear that the markel can be glutted. The trouble will be that the de mand will always exceed the supply.-Santa Ann

#### RCLIPSES FOR 1883

In the year 1883 there will be foor cellpacs; two

of the san, and two of the moon

A slight partial cellpso of the moon, April 22; only one digit being cellpsed anywhere. This eclipse will be visible to the Pacific Const. Eastern

eclipse will be visible to the Facilic Grawl, Eastern Asia, Australia, and the Pacilic Grean, II. A total cellipse of the sam, May 6, visible chirtly to the South Pacific Ocean. III. A partial cellipse of the moon, October 11th and 16th. Visible to North and South America, and extreme western partions of Europa and Africa. To those living in this locality, the cellpse will commence about one o'clock on the morwing of October 16th.

An annual celipse of the sun, October 30th, Intvivible to North America, except in part to the Pacific Coast. Visible to the North Pacific Ocean. and extreme eastern edge of Asia. Beginning at San Francisca at 17 minutes to 1 o'clock r. M., the ann setting at moment of greatest partial celips

The Pacific Shipe will get a view of thren of the ahove eclipses.

THE PLACE FOR A HOME.

A man of family, lbst is, a man who is worthy of having in his keeping the rearing of a family, who is muxious to draw around him the practical blessings that camble men to fully enjoy the contentments of a home, can find no better place to cast the anchor of his hopes than here in Fresno county. Here he will find himself in the neighborhood of schools in which his oblidren can nequire all the learning neccessary to the requirements of a good business education, and employment sufficient for them to learn the sweet inde pendenco of huwest toil. Any man who is willing and able to work cau obtain a colony lot upon such terms as will camble him to pay for it out of the proceeds of the twenty seres in which he investsfor simply nothing but his labor. So sure are the first owners of these colonies that men can make money out of them in grape and fruit culture, that some of them not only sell without receiving a cent down, but, in some instances known to us carry the purchasors of their twenty-acre lots until such time as a return comes to the nurclaser either in a grape or fruit crop; the only requisite being that he spend his time in carneslly bringing his lot under good cultivation. The canucry would have given work to a hundred boys and girls more than presented thouselves last year, and its espacity will be doubled next year. The work in fruit pre serving establishments averages about five months of each year, and good wages are paid for boys and girls as well as mon. The canals and ranches also employ more or less help. A man who can and will work can free bimself from debt at the end of the fourth year, and be in possession of a tract of land that will produce an annual income of from \$2,000 to \$4,000. Of course, a man can do much better if he has a few bundred dollers to start with; but the thing has been done and can be done again as above stated. Almost any legitimate business undertaking will be successful here if adapted to the wants of the county. We can safely say that Fresne county presents to the man of moderate means and to the laboring man more inducements to come and found a home of his own than any other portion of the coast .- Fresno Exposutor.

#### PARMIERS! OUTLOOK.

Farm prospects were never more favorable in this section at this season of the year. Grain is growing finely. The cold snap was of great henefit to it, as it gave it by the set-back a heavier root and prevented the tops from growing too fast and rank. We have had for the season nearly 11 inches of rain, and this with the almost constant foga, have kept the ground in splendid condition. The weather is now as balmy as spring, and since the last warm rains all nature has put on a broad grin. The dairy season is unusually promising. Many of the daries in Marin county, notwithstanding the long spell of cold weather, are now averaging one pound of butter a day to the cow. Slock of all kinds is generally in better condition than usual for this season of the year. On the Lagnus, in Marin county, two or three new hop fields will be planted this spring. Mrs. L. W. Walker is setting out about 20 acres, I. R. Jewell will add ahout 20 acres to his present field of 15 acres. Charley Martin will also put out quite a large field. Mr. Pepper and other nurserymen in this section inform us that the demand for fruit trees and vines was never so great here as it has been this season. Of many varieties, all the stock suitable for planting has been taken from the nurseries, and they haven't a tree on hand. Farmers have made mere improvements on their farms the past year than any previous year since our settlement. The whole counvious year since our settlement. The whole country bears the appearance of thrift and proaperly, and the general outlook in all this section could not well be more promising .- Petaluma Courier.

#### CHEAP MOUNTAIN LANDS.

We again call attention to the cheap lands on Sonoma mountain. In the near future some of the best grapes and fruits will be grown in what is known as the warm bell on thal mountain. It is above the fogs and ordi-dary frosts, and much of the land is peculiarly adapted for vineyard and orchards. The land mlapted for vineyard and orchards. is cheap, water and wood abundant and the very best, the climate fine, the scenery can not be surpassed in the Coast Rauge, and with a little money, backed by practical sense and industry, a mon con in four years make bimsell imbehendent. Land in small tracts enn he purchased for from \$15 to \$30 per acroaccording to licution and improvements and other advantages. It is near the market, is healthy location, and for residence and fruit purposes we think possesses some advantages over lands lower down in the valleys. These lands, in a few years, will more than double in  ${\tt vulne}. + Petelunne Courier.$ 

#### TULE BANDS.

A tract of 2,500 nores is now being reclaimed, in the vicinity of Twolve-pille shungh, San Jonquin

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VINEYARD, WINE CELLAR AND THE TAILOR. DISTILLERY,

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SHOT, CAPS, WADS, AMMUNITION. FUSE, Etc.

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WISE people are always on the lackest farmers to harcose their certains, and in improve their opportunities reading; those who do not other a change to make money. We waith in juverity. We toget make money. We waith in a wonder toget and girls to well for us tight in their ewis localities. Any merem do the work projectly from the first start. The business will pay more than but those archivery wagos. Expensive outlibe furnished free. No non-vote your whole their their work, or only appear no south. The little is merted sent income the Full Internation and all that is merted sent inco. Address, Existence & Co., Portlant, Malno.

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#### PURE OLD PORT WINE.

Vintages of 1875, 1876, and 1877,

Will be found very rich and choice. Warranted joire and of full body,

#### PURE OLD ANGELICA.

Vintages of 1875 and 1876.

This is a Wine of Superior Qua. ity, and such as has never been on the market in any country. This article SHOULD NOT be classed with the so-called Augelica Wines of this Coast, but is of a rich, rare flavor and full boilicit, and NO CORDIAL can compare with it.

#### PURE GRAPE BRANDY,

Manufacture of 1875 and 1876. Cannot be excelled, having been but a few mouths before the

Public, it is meeting with unparalleled favor, to the exclusion of all other brands.

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## "BALDWIN" BRANDIES

Are Manufactured from the best selected grapes, grown upon soil peculiarly adapted to fine brandies, and is always retained in private stock until over five years of age, and none offered for sale at a lessage. Guaranteed free from foreign spirits or adulterations of any kind, and the identity of the brand always preerved, which is a gnarantee for fine quality, flavor, and purity.

Skilled Experts, judges of bramilies, of hill nutions, Occurs and Scientists, at once pronounce E. J. BALDWIN'S

PURE GRAPE BRANDY The PUREST and BEST in the WORLD.

#### One of Many Testimonials:

Cine of Many Testimonials:

San Francisco, May 23, 1881.

E. J. Baldwin, Esq.—Dear sir: I have great pleasure in assuring you that your Santa Anthé fire Grape Risady, in ray opinion, as in that of many of my francisco and the property of the same of my francisco and the property of the same of the same control of the same fine panels, I doubt from the careful alternton paid to the schedon of the grapes, and the method employed in removing the findfull, if it equal, of the same vintage, was the found anywhere. I took great pleasure in distributing the package you sent me in miny frequents, and all secunds as delighted as surprised that our Biste could boast of such a third production.

l am, very truly, years,
(Signed.) A, J. nowie, M. D.

for Hotor Cold Properties the "BALDWIN" BRANDV cannot be equaled; for medicinal purposes it is for about if any attent of any purposes it is for alread of may slimulant the stone our centle or the state of th

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# GENERAL MANAGER A. N. TOWNG AND THE RAILROAD COMMISSIONERS.

The tollowing bulers, from A. N. Towne, Genral Manager of the Central and Southern Pacific railroads, to the State Board of Railroad Commis sioners, are well worth the time required for their careful reading by the public. They are straight forward, bunest, and pertinent:

SAN FRANCISCO, February 5, 1983. Homerable Board of Railroad Commissioners. GENTLEMEN: In regard to the subject referred to, of the construction of railroads in the State of California, and the benefits derived therefrom, and agreeable to promise, I deshe to say the testimony derived from experience, has led to the settled conclusion that the construction and operation of railrouls confer development upon the section of country served by them,

I had supposed this to be so fully admitted as to have passed beyond the rentm of confroversy long ago. From what was said at the last meeting, and from the reports of the proceedings of your honorable hedy, it appears that this common and wellestablished conclusion has been questioned, and the instance depended upon to support an opposite theory, relates to the Southern Pacific Railroad system in the Sau Jonquin valley and the countres of Los Angeles and San Bernardino.

I understand that it is alleged that the Southern Pacific system has not promoted the creation of wealth, or the settlement of population, or the general welfare of the communities named. By this position, there is ruised an issue of fact, which has induced me to institute a careful review of the evulences upon which the settled conclusions in favor of reilroud building have been based.

The tacts herein presented are from official

They are comparative statistics, determinate of conclusions, fully establishing the trigh economic value of railroad construction.

Your attention is most respectfully called, first, to the comparative statistic data, and, with your kind permission, I will, inter on, present in the most direct manner at my command, the general considerations hearing upon this subject;

Ruthrond Construction.

The Tulere Valley Railrond, connecting Lathrop with Goshen, was constructed during the years 1870-1. The extensions of that line were made as follows: Goshen to Tipton, finished Jun Tipion to Delano, finished June, 1879; Delano to Lerdo, finished June, 1874; Lerdo to Sumuer, thiished 1875; Sumner to Caliente, finished May, 1876 Caliente to Tebachepi, finished June, 1876; Tehachepi to Mujave, finished July, 1876; Mujave to San Fernando, finished September, 1876; San Fernando to Spedra, finished April, 1874; Spidra to San Gorgono, finished October, 1875; San Gorgono to Iudio, finished June 1876; Imito to Yama, limshed June, 1877; from Geshen north to Hanford, flushed December 1876; from Basiner for Hannot, inished December 1876; from Basinerd to Huron, finished January, 1877; Lus Angeles system connected with the San Francisco system September 5, 1876; road completed to the Cubirado river in 1877; Yuma to El Paso opened up to traffic May, 1881, and to New Orleans February 1, 1883.

From the foregoing, it will be seen that Los Augeles was connected with San Francisco September Through communication between the cities of San Francisco and Los Angeles, therefore had been established but six years. Eastward connections, via the A. T. & S. F. R. R., afterding outlets for the products of Los Angeles and San Francisco were established to Deming, March, 1881; to E Paso, with the Texas & Pacific, January 1, 1882, and to the Gulf of Mexico February 1, 1883.

Benefit to Printiers.
From the time of the completion of the road to Yuma, the stuple products of Southern California were exported to Arizona, and, with the further extension of the road to Tueson and the New Mexican line, these products fludling market in New Mexico When the junction with the Atchinson, Topeka, & Santa Fe Railroad was effected, a still broader area was opened up to the semi-tropical products of the southern portion of this State. The differences of production between different parts of the earth constitute the basis of commercial exchange between them. The fruits and garden track of Los Angeles ripen earlier in the season than the same products in the region lying cost of the Sierra Nevada range, and north of the 35th paratlel.

In illustration: potatoes, tomatoes, green gens

and other gurden vegetables are obtainable in Los Angeles as early as April, while these articles of food cannot be obtained north of the 35th parallel hofore May, and in still further morthern latitudes not before June and July. The rute of transportation between Southern California and the Northwestern States affords a profitable margin for the expurtation of gardon vegetables, while 35,000,000 of the people of the United States resule in latt-indes where the tropical and semi-tropical products of Smithern California cannot be grown.

This fact will confor upon Southern California permanent and roudy market for her products. Before he completion of the reffraul lines con-necting the southern part of our State with the States and Territories menthaned, those existed, to a limited extent, the production of fruit and wine, In the counties of Los Augeles and San Bernerdino but the completion of the railroads in question bas

enaferred upon that section a profitable market for lumber, through the port of Wilmington, grain and all dairy, orchard, and garden products, and has given an impetus to these industries, which has conferred realth upon that part of the State.

Increment of Taxable Property.

That this is so is further emphasized by the inreuse of laxable properly during the past ien years. In 1810 the tax roll of Las Angeles county showed In 1810 the tax roll of Los Angres county stored the aggregate taxable property to be \$4,918,074. In 1882 the tax roll for that county shaved the aggregate taxable property to be \$20,975,188, an increase of twer 300 per cent, in twelve years. The official figures show that the larger per cent, of this increase should be credited to the past five years. The same grantfring result is ablaued by a quantified of the gratifying result is obtained by a comparison of the tax roll for 1870 with that of 1882 as relates to San

Bernarding county. The figures are as follows:
Toxable property in 1871. \$1,202,482
Toxable priperty in 1882 \$1,002,482
Toxable priperty in 1882 \$1,002,513
Being a gain of over 300 per cent, and as in the former case, over 60 per cent, of this gain may be credited to the period which has clapsed since the completion of the rullroad system. Nor is the of-ticual exhibit less satisfactory as relates to the comties in the San Joaquin valley. San Joaquin county, the wealthiest, and most populous of the San Josephin valley countles, contained but \$7,830,000 worth of taxable property in 1870, while the tax roll of 1882 shows \$28,114,756 within that county.

Like comparisons instituted relating to the other commics of the San Joaquin valley show like results; as, for matance, the footings of the tax roll for Stanislaus county in 1880 showed \$3,423,808, The lax roll for 1882 toots up \$10,620,719, being a

gain of over 300 per cent.

The same results are obtained by a comparison of the value of the taxable property between the years 1870 and 1892 in the counties of San Bernardino, Merced, Fresno, Tulare, and Kern; and for your better information the following tabular statement, obtained from the office of the Comptroller of State, is presented. This table includes the taxable property in the conntres mentioned for the years

mool with a more	02.		
Countles Los Angeles San Bernardino San Joanna Merced Stantslans Fresno Fularo	Tax 1860, \$3,650,000 117,238 4,933,100 1,116,994 960,810 931,000 1,580,529	Tax 1810. \$ 6 918,011 1,203,482 7,840,220 3,202,455 3,423,508 3,219,230 3,466,766	Tax 1882, \$70,915,188 3,025,913 98,111,757 6,234,800 10,629,710 8,369,091 7,900,900
Totals		\$31,217,891	5,101,691 501,610,591 81,217,891

One Hundred Millians at Volue Created.

The outire taxable property in Los Angeles, Sau
Bornardino, San Joaquin, Merced, Stanislaus,
Fresno, Tulare and Kern counties, in 1800, aggregated but \$13,613,351, ar over sevru millions less than the taxable properly of Los Angeles county

In other words, Los Angeles county to-day hes 50 per cent, more iaxable property than the ontre San Juaquin valley (including San Joaquin county itself, Los Augeles and San Bernardino countles) had in the year 1860.

The aggregate taxable property of these counties in 1870 amounted to \$31,277,891, while the present aggregate value of the taxable property in the same counties foots up \$91,610,591, an incresse of over 300 per cent. These countries, therefore, have gained since 1810 \$60,333,700, the increase being about double the amount of the aggregate taxable properly for 1870.

That this enormous increase of wealth, this gratifying evidence of prosperity is due to the influence of railroad construction, is fully established by the sell-known attendant lacts. The only outlets the products of the San Josquin valley prior to the building of railroads was by way of the San Joa-quin river to San Francisco. That river could not profitably navigated beyond Firebaugh's Farry. In fact the City of Stockton was practically the head of navigation upon that watercourse. But the establishment of raitroad communication changed the character of the industrice of the country from a region devoted to grazing to the profitable pursaits of agriculture and vameulture. The statistics of the county of Kern present no

record of inxable property in the year 1860. In the year 1870 the aggaegate value of taxable property in that county; amounted to \$1,974,856, while in 1882 the taxable property reaches the sum of \$5,431,691,

an increase of 250 per cent.

Presenting the showing made by all the counties in the San Josquin valley in a single footing, the mercuse of taxable property, from 1870 to 1882, was \$40,553,705. There are in the San Josephin valley 6,007,268 acres of hand adopted to agreed-limal purposes. The average value of this land, prior to the railread building, could not have ex-ceded \$5 per acre. At that valuation, the aggre-gate value of the land would be \$30,036,450. The present average value of the hand exceeds \$20 per acre, or the aggregate relaction of about \$190,000, 000. Thus the construction of railroad lines has created values in real estate alone amounting to chont one landred rulllian dellars.

That the saw whites have been conferred by the con-struction and operation of rallroads becomes ap-parent when it is considered that divested of such railroad communication they would at onco return

to their former valuation. These specific facts constitute a strong showing in favor of rollroads, but they are reinforced by other and higher considerations, the social and intellectual value of quich communication with the great center of social and intellectual life, and the grantal convenience and comfort of railroad communication with all parts the country our not be aver-retimated. cost of the supplies for the people of the Smi Joaquin valley has been grently reduced. The inorease of production since the construction of railroads has been very marked. The population of the San Joaquin valley has been increased by over 45,000 people, more than 15,000 haildings have been erected, villages and towns have spring up the line of the roal, and generally the wealth has been enhanced and population greatly increased.

It should be, and is, an doubt, well known to you that fresh fruits, grown in the San Jonquin ralley, and in the counties of Las Angeles and San Bernardian, are shipped to the cities of the East, and sold at a rate but little, if any, in excess of the market price obtained for them in the cities of San Francisco and Sacramento.

Early garden stuff is transported from the City of Los Angeles to Kansas Cily, St. Louis and Chicago, and sold in the markets of those cities at a rate scarcely in excess of the retail price for the same commodities in Los Angeles itself. The green fruit shipments from the Sacramento and San Josquin valleys show a constantly angumented tourage, and an unlimited marked is found for them in Arizona, New Mexico, Colorado, Wynning, as well as in the States and Torritories further cast. Orchard, garden and dairy products require quick as well as cheap transportation, and this requirement can be met by no other agency than the railroads.

The construction of railroads, then, has conterred

upon the sections of country, under consuleration, unlimited markets for all the products to which they have given cheap and rapid transportation, and have placed the populations of these sections in cheap and quick communication with all parts of

In all this they have conferred benefits which can not be estimated. R specifully, yours,
A. N. Towns, General Manager

#### Manager Tawne's Second Letter.

San Francisco, February 7, 1883.

Honorable Buard of Railroud Commissioners-GENTLEMEN: Since nur communication to you of day before yesterday some thlugs have occurred to ns which we beg you will permit us to present in

In the administration of your high office there are many things to be considered.

However zealous you may be to arrive at an

early decision, your zest smould be well-informed and enlightened. The gravity of the situation obliges me to appear to you for justice. You are the judges, jury and executioners. Aml I am sure we are not deceived in our faith that you will do nothing that will harm our properties. We will demand nothing which will not be in full accord with the rights guaranteed by the Constitution. The rates as fixed by our Company are the results of much lahor, after serious consideration, and a thorough conviction that no higher rate was charged than necessary to meet the requirements of the Company,

These propositions are not inspired by personal aterest. The writer has no property rights in any interest. of these railroad corporations. He is here to develop the interests of the country, and to bring about fair returns upon the property he represents. And the welfare of the country through which the reads run, will, in the future, as in the past, atike with their owners, have full consideration.

As a proof of this, look at the internal prosperlty enjoyed since the advent of the roads. All industries are encouraged, and prospering beyond any precedent. The measures adopted by our people in their policy, and the results achieved, must be obvious to every candid mind, and it can hardly he devied that the emis sought have been artained (1st) to meet necessary expenses, the requirements of the General Government, under the "Thurman Act," a small interest on the capital employed, and (2d) to reduce the rates, from time to time, by our own volition.

This we have done, from the high maximum This we have thire, from the high maximinal allowed by law, to the average of two and sixteen-fundredths (2.16) cents per tan per mile in freight, and three and six-mindredths (3.06) cents per mile or passengers for the whole system, for the year of 881. And we are confident that it wilt he below 1881. these figures for 1882.

these figures for 1882.
We would ask your candid consideration to a comparison of these rates, with the rates charged by the roads of New South Wales, as per their last report, (1840) which are four and skyly four bind-redths (4.841 combs per ton per mile an freight, or more than double that charged by the Central Pacific and hossed lines, and but forty-fortr hundcine and massed inter, and for colly-considered that (14,100) cents per mills best on passengers than was paid by the people of California. What better or further proof is wanted at the wisdom of the pulley at our Companies? And what better ovidence of just and reasounble rates can be affered.

people, and operated for their benefit, and from which they receive nothing in return but the service performed in the transportation of passengers and property. White, on the other hand, the Central Pacific Railroad Company is required by law to carry, free of charge, (over certain sections of II, lines), officers in charge of convicts, and limatics, articles intended for exhibition at the State Fairs It not only performs a service equally as valuable as the roads of New South Wales, but it pays back to the State a large amount of money, in the way of taxes, harbor dues, etc. The amount by the Central Pacific Railroad and leased lines for tolls (upon its own raperly), and harbo dues, for the year 1881, was \$43,000. The total unionnt of assessment of taxes was nearly \$700,000 for the State of California, to which must be added the amount dishursed for labor, fuel, material, and supplies, a very large amount of which finds its way back to the people of California, and which would probably equal the amount received for the entire service within the State.

If we do not possess your full confidence, we invite you to make a searching inquiry into these af-fairs, in support of what we tell you, and you will, as honorable gentlemen, admit that our position is not only tenable, but that it and our acts are just During the official term of your immediate predecessors, we made many most important reductions in our rates, (substantiated by their reports), which are not seemingly fully understood or appreciated. We call your special attention to these matters, and would urge upon you the fact that we have placed to the credit of the farmers of this State many millions of dollars by cheapening rates from their farms to the consumers of their breadstuffs in Europe, all of which are matters of record with the Chamber of Commerce and Board of Trade, in this city.

Further, we have done very much to develop and enrich the State, which was referred to at length in my communication day before yesterday.

Your predecessors were sheelved from further reductions, in the eyes of fair-minded men, by the great reductions made by our Company, during their term of office, and, should the four years of future be as prosperous and encouraging as the past, we promise corresponding concessions in our rah s. But, with a dry your in prospect, and all the attendant circumstances, the Company cannot, in instice to itself, at this time, further reduce its rates, and, in making this appeal to your honorable Board, we do so in full confidence that you, in your wisdom, will do even handed justice to this property, and even though it be the property of poration. To adjust the rates feirly alike to the roads and the people, as best to be borne, and to develop the business of the rushs, is no easy task. Since the roadwas completed, nearly territor years ago, this work of reduction has been constant, and it has demonstrated, to men of experience, the impossibility of an equilable and fair adjustment of a tariff, without a thorough knowledge of matters entering into and forming important factors relating thereto. I respectfully commend to your attention the able discussion and testimony of Messrs. Adams, Fink, Blanchurd, and Atkinson, whose opinings, by reason of the profound study given this intricate subject, should have the highest value, Shall the life study of those men of acknowledged ability be outweighed in the balance by the few days' consideration you gentlemen have given this question?

Are our rates such that thoughtful men contem plate them with deep concern as a menace to the welfare of the State?

Is there much poverty and suffering?

In what direction is the development of the State being discouraged?

In what difficulties is the country involved, from which you are called upon to extricate it in such

Is the State in a perilous condition? Is there any stagnation of business? Is not the reverse the fact? From all parts of this State, assurances of a high

From all parts of this other assurances of a togu-state of prosperity are given.

There is Prollindic Employment
For all who are willing to work. Wages for all labor, both skilled and unskilled, are higher than

for such imployments east of the Rocky Mount-sins. As an evidence of this general prosperity, I refer to the cotn reserves, belonging to the people, and deposited in the banks of the Sinte.

On January 1, 1883, there was standing to the credit of depositors, in the savings lambs, over \$55,000,000, and in the emimercial banks, July 1, 1882, over \$35,000,000—an aggregate of \$90,000,000.

This sum is sufficient, with the present compara-tively low prices of material and labor, to more than duplicate all the miles of rand operated by this Company during the your 1882, excluding portions of the heavy work on the mountain sections.

Your attention is also railled to the tollance shrot of the cornings and expenses of 1882, now before you. The aggregate dividends declared, if applied than was paid by the people of Chiffernia. What better or further proof is wanted at the wisdom of the pultey at our Companies? And what better evidence of just and reasonable rates can be affect.

The Romis of New South Wides, Aggregating nearly 1,600 miles, are owned by the Aggregating nearly 1,600 miles, are owned by the

built were constructed, at the price of many efforts, narked out. They were hullt far in advance of settlement, and at many great sacritices. They have all been reirmed, and many of them relaid with steel, having worn out, in many places, already two sets of true rails. They have all been relaid with ties for a second or third time. And yet we have but a sparse population to support them, as compared with roads of the East.

In view of these con i urnthms, I would further appeal to you for justim and protection.

Some of the uncastres you are proposing would operate as restraining orders and force us to build up barriers, high and wide, to protect a property that his done so much to make this great commonwealth rich and prosperous.

Respectfully yours, A. N. Towne, Goneral Manager,

#### SANTA CRUZ COUNTY.

Last week, in speaking of the increase of population that has taken place in this county during the last two years, we put the number nt 500 persons among the agriculturalists, This is a very low estimate. The incremed vote of this county, as shown by the great registers of 1880 and 1882, is 488. This increased citizenship was not shown in the rote cast in Watsonville and Sauta Cruz, and must represent at least 2,000 people, as there is, on an average, but one voter to five and a half per-The increased population of the last two years, estimated at 2,000, must be largely on the farm, in the vineyard and setting out trees. Their presence in the bills is what has set men to grabbing out roots, plowing steep side-hills, erecting cottages, conducting spring water to comfortable homes, foucing in all tillable spots, and doubling the value of mountain lauds. -

#### A WINTER IN CALIFORNIA.

A correspondent of the Boston Journal, writing from this State, says, in the course of a communication:

The fact is, the winter climate of Colifornia is one of the best in the world. Except upon the mountains there is no snow, and only an occasinual frost in the const valleys. All along coast, from San Diego to Mendocino county, and inland for 100 miles, the tourist finds that the winter is simply the vernal senson. Here and there he sees oranges ripening on the trees, which are, in many instances, blossoming for more fruit. The hills are covered with new grass, there is the tilth of fields, the budding and blossoming of roses in all the gardens, the blooming of noncins by the wayside, the blue sky, the sun, and, for the most part, the tranquil sea.

#### J. D. SPRECKELS & BROS.,

Shipping and Commission Merchants,

HAWAIIAN LINE OF PACKETS.

325 Market Street,

SAN FRANCISCO.

# CALIFORNIA SUCAR REFINERY

Manufacturers of the

# STANDARD SYRUP,

A SUPERIOR ARTICLE,

Put up to Bierrels Expressly for Hime Congrompthin.

## EXTRA HEAVY SYRUP,

to Barrels for Expuri

#### REFINED SUCARS,

At Lowest Market Rates

Officel 325 Market Street, Un States

\$72 A week made at home by the industriens. Dod hustness may before the public. Out that mot needed. We will start you. Men, wence the first wanted every week made at the work of the first that the fir



San Francisco, -- California

ON THE EUROPEAN PLAN.

ELEGANTLY FURNISHED ROOMS WM. F. HARRISON, Manager.

# COMMERCIAL INSURANCE COMPANY

OF CALIFORNIA.

Fire and Marine Insurance

Capital, paid in full, - \$200,000,00

Assets, Dec. 31, 1881, \$377,457,82

Losses Paid Since Company was 0rgantzed nearly, \$800,000.

JOHN H. WISE...... President

#### OFFICE.

No. 405 California Street, S. F.

#### OO YOU ADVERTISE!

the year wish to advertise to the amount of a few dellars only? Apply to us, and we will inform you how you can havest the amount most judiciously.

#### WE WILL TELL YOU HOW.

If you wish advice or information on the subject, we shall be glad to communicate with you and endessed in give you salisfaction

#### YOU CAN SAVE MONEY,

Do you wish to advertise extensively? Send a con-cise statement of what you wish to do, and await our estimate before giving out the order.

#### TIME.

Have you a list of papers in which you find it pays you will in advertise? Send your list and advertise ment to me. By so doing, you can save expense, time, and the trouble of attending to the business.

#### ANNOYANCE,

Does it give you trouble to look after the advertision to each particular paper? Let us do your business, so we examine every paper, and see that every instribute is properly about and all ourissions made good.

## AND HAVE YOUR WORK DONE

Is your credit so well established that you can secure very low rates by trading direct with publishers? If so, we want your husbress, and will procure you equally low rates

#### CHEAPER.

If you do number if titto, we shall be glad to do it for you, and give you every advantage which our experi-ence of sevention years enables us to offer.

#### BETTER.

he you that it difficult to get exactly what you wan!? Write us in detail just what you will require and see if we do not give you satisfaction.

#### AND MORE PROMPTLY.

Are you annoyed by mendless distage. We proude you thry whalt ind oreur if you trade with us. We al-ways send out all orders and check all papers the day thry are received.

#### BY SENOING YOUR OROERS TO

If you want the most expensive advertising, we can give you the papers to the R in . If you want the chosp est, we can the the same, and in other case it will pay you to write to us.

#### GEO. P. ROWELL & CO.,

If you live here or come to our elly, we shall be glob to have you call at our offices, whether you are ready to advertise or not.

### NEWSPAPER ADVERTISING BUREAU

We have an outlie hulding of our own; we keep all the newspapers on the, and shall lake phasars in shall ing you haw we do our work. If you can't come, crite for our strouble and estatione, which will be sent free

NO. 10 SPRUCE ST., NEW YORK.

# FIRE AND MARINE

# INSURANCE AGENCY

OF

#### HUTCHINSON

& MANN,

Nos, 322 and 324 California Street, and 302 and 304 Sansome Street,

#### san Francisco.

Agents for The

Dwelling House Underwriters...New York,
\$2,100,744 06.

Girard F. & M. Ins. Co...... Philadelphia, \$1,101,313 26.

La Confiance Ins. Co........... Paris, France, \$6,679,565.

New Orleans Ins. Ass'n......New Orleans, \$573,216.

Standard Fire Office....London, England. \$1,300,000.

St. Paul F & M. Ins. Co. . St. Paul, Minn., \$837,893 43.

The Fire Ins. Ass'n (Limited) . London, Eug..

Watertown Ins. Co ..... Watertown, N. Y. \$1,006,656 23.

#### MARINE.

The Loudon and Provinctal Marine Insurance Company.......Loudon, \$6,278,362.

La Fonciere Markie ins. Co............Parts, \$2,25t1,000,

Capital Represented. . . \$27,650,527

W. L. CHALMERS, Z. P. CLARK, Special Agents and Adjusters.

F. P. BACON, Pres.

C. L. FOUTS, Sec

THE

# Globe Jron Works Co.

FOUNDRY,

MACHINE SHOP,

and FORGE.

Manufacturers and Repairers of all Kinds of

# MACHINERY AND IRON CASTINGS, Hoisting and Mining Machinery,

Portable, Stationary and Marine Engines.

#### BISHOP'S ECONOMICAL MINING PUMP APPARATUS,

Which does Kurry with Cumbrous Pump Rods, V Bobs and Balance Bobs operating equally well to shufts ar inclines to duffing of deflection late distant workings. Circu lars furnished free, upon application.

AND

C. H. BAKER'S MINING HORSE-POWER

SPECIALTIES.

ALSO C. D. LOUNTS' PATENT AIR COMPRESSORS.

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Druggists and Manufacturing Chemists,

RESPECTIVELY CALL ATTENTION TO THEIR NEW AURIVALS OF

Foreign Perfumery, Cologues, SecuCot Tatlet Sonps, Butr, Touth and Natl Benshys, Cambs, Butr Otts, Parados, Fice Powriters and Costoriles, Spanges, Patent Medichies, Fic., Etc.



JAMES C. STEELE & CO.'S

# Palace Drng Store,

PALACE HOTEL.

635 Murket Streek - - SAN FRANCISCO.

# W. T. CARRATT'S BRASS AND BELL FOUNDRY.

SAN FRANCISCO.

MANUFACTURER AND IMPORTER OF

Church and Steambort BELLS and GONGS BRASS CASTINGS OF All kinds, WATER GATES, GAS GATES, FIRE HYDRANTS, DOCK HYDRANTS, GARDEN HYDRANTS.

A BENERAL ASSORTMENT OF ENGINEERS' FINDING



CELEBRATED
STEAM PUMP

The test and must durable in use. Men a variety of other PUMPS

FOR MINING and FARMING purposes

ROOT'S Blast Blinwers, for Ventlisting Mines and for Smelling Works HYORAULIC PIPES AND NOZZLES, For Mining Purposes.

GARHATT'S IMPROVED JOURNAL META.

IKON PIPE AND MALLEABLE IRON FITTING

SHIP WORK & COMPOSITION WAILS
AT LOWEST RATES.

# The California Lloyds UNION INSURANCE COMPANY

OF CALIFORNIA.

THE CALIFORNIA LLOYD: (Established in 1861).

# FIRE AND MARINE

Paid-Up Cupital, - - \$750,000

PRINCIPAL OFFICE, Nos. 496 and 418 California St.

Agencies in all the Principal Cities of the United States.

G. TOUCHARD,
President.

JAMES D. BAILEY.
C. P. FARNFIELD.
GEORGE T. BOHEN.

Secretary
GEORGE T. BOHEN.

ITS ADVANTAGES TO IMMIGRANTS.

The Southern Pacific is now completed to its Eastern terminus, and the last spike connecting this coast with New Orleans has been driven. What effect this will have muon us is yet to be sive, but there can be little doubt that it will be of material aid in our future welfare. It is announced that emigrants can ship at Havre, through to California vio, this roule, for \$65; it so it may be the means of bringing to our coast a large portion of the laboring population of the old countries, and practically solving the Chinese question, by lumishing reasonably white labor to do our work. It will also be the means of bringing a great dval of congration through to Southern California, and making our many advantages known to the world, and there is no doubt but that many who would never have visited us will now find their way here for the winter months. The further completion of the Atlantic & Pacific will still further aid us in this respect and it is safe to predict that Southern California is now on the turning-point for a prosperous luture more brilliant than most of us would believe. have now two transcontinental roads, the S. P. and the A. & P.; both will pass through our valley, the latter by the C. S.; another road, the Utah Southern, is pointing toward us, and will come in time. We shall thus have railroad connection with the south mo, the S. P., the Central States and Territories ma, the A. & P., the Northern Territories min Utah Southern and Utah Northern. Il will be but a few years before San Bernardine will be a central point from which we can take rail to any portion of the United States direct, and a point upon which all atternion will be centired, on account of ils railrond facilities, added to its many other inducements. Below we give an account of the comple-

The new roud leaves the main line of the Southirn Parelle road at Deming, N. M., and runs to El Paso, Tyxas, where it crosses the Rio Grande. It extends thus by a circuitous runte, across Texas, to San Antonio, connecting at that point with the Galvestan, Harrisburg, and San Antonio road, and running there to conteel with the farmer Texas and New Utilems road, at die minutes at New Orleans.

The place where the last spike was driven into the sheper, is in the south-western purror Texas, about 490 miles from a bridge across the El Paso river, wear a cributary of the Rio Grande, called the Devil's river.—Sun Bernardino Times.

#### A RAPIDLY GROWING TOWN.

The Pomoin Times, Los Angeles county, says, Every day brings new citizens to war town, and every day new buildings are committeed. The town of Pomois and the vally surrounding it is advancing with an astomaling rapidity. Old citizens who have held out faithful and remained with the town through the slive days of the past, are today satisfied that their judgment was sound in making their limes here. Those who have been here but a short time are more and more pleased with the rountry overy day, and those who have been here but a short time are more and more pleased with the rountry overy day, and those who have but just arrived are happy in their choice of location. No one seems its appointed. No complaints of being wrongly informed or of traving had overdrawn or bugns inducements held out. This country needs no bottering or galvenizing, but stands equare on its ments. All take right hold and show that their entire satisfaction and full determination in staying by building homes, bustness houses, and otherwise improving. And another point, very pleasing to all concerned, is that those coming are of the kind that make good citizens and a prosperous community. To every observing persou it is plain that Pomoin is destined to be live, business town of no small proportions or mean imporarinee, and that the vulley surrounding it will keep pace and be people d by a carresponding class—a class that sustein law, upholds morably, and huilds school-houses and entrelies. It takes time to bring mount great achievancies. Ten years hence—or even five, will show to the ward what can be accomplished where everything to as favorable as it is here.

#### а маммоти оак.

The Solano Republican time speaks of the value of this tree for fire wood:

We all know, as a matter of fact, that the oak grows to an enermous size on this coast. It does not tower up like the glant redwood, but grows to a reasonable height, when it branches out in all directions, and many of its arms or limbs are nearly half the size of the body that supports them. To look in one of these frees casually while passing through a grave there len't one person in a thousand that has any idea of the mainful of stovewood that one of these gnarled, highly-topped trees contains. For the benefit of those who scarcely evergive it in thought, we will naintion an instance where one of these mainful trees was out a tow days ago. L. B. Abernathie's word for this: He felled up his ranch an eak that, when worked into sinvewind, made 131 tiors, or \$5\square\$ could work at the felled up his ranch as worth \$6\square\$ per nord. If my of the formers living in Suismi valley ar visewhere can beat thus, let them now speak, or over after held livet peace.

#### WOOD GROWING.

We learn from the Fresno Expositor that wood has been sold at seven dollars per cord in that town during the past year, and those who hand it up to town say that there is very little profit in it to them at that price, and that the price must continue to advance, from year to year. A writer in the .Ma. in commential on the above, says:

The wood supply seems to be a matter worth consideration, and it seems remarkable that some of the parties owning hunt near Fresno, susceptible of being irrighted, have not taken the matter under advisement before. In fact, we don't see why every farmer does not devote a portion of his ground to growing timber for fuel. In some parts of the State, the farms are surrounded by rows of cuttonwoods, willows, gums, etc., and, from time to time, these trees are topped about eight feel from the ground, and made into firewood. The tree at once puts out a new top, and, in a year or two, is ready to yield another crop of wood. In other places considerable areas of land are planted with blue gums, and, from time to time, are cut down for wood. These trees spring up again from the roots, and are cut down again as soon as they have attained a sufficient growth. Land devoted to timber culture pays an average of over \$100 per acre in sections where wood is chenp, but in this section it will pay greatly in excess of that figure where wood sells as high as \$7 per cord, it will pay \$150 per acre per anunm

#### NO PHYLLOXERA.

We find the following in a late issue of the Freeno Republican:

I have examined the following unmed vineyards and enlosies for phylloxent, and failed to find the slightest traces of muy: Malter's Presno, Buller, Burlon, Eisen, Eggers, Wilhams, Hadson, and Kearney vineyards, and Navaila, Church, Central California, and Scandimercian colonies. I should like to advise very vineyardist in the county to be very cureful in ordering cuttings and rooted vines. It a burdly necessary to to beyond the limits of Freshn county, and by far the most prudent not to do so when we consider the possible resuit, as regards phylloxers. Now, that we are still clear of this pest, it will be worth millions of dollars to this promising and thriving center of a full-growing community not to let this enemy be brought among us. One single infected cutting will do the lusiness; Buy your control vines, enttings, and fruit trees at home if you can possibly be suited. This is the only real safeguard we have - M. Danicas, Lucal Resident Inspector.

#### APRICOTS FOR PROFIT-

Apricots are certainly one of the coming fruits. They do well in all coast counties south of San Francisco, as well as in several interior connies, including Yolo, Secrimento and Sutter. It requires a deep, rich, allovial sail to produce them to perfection. In fact, if profit is the object, it is a waste of time and money to attempt to grow them on indifferent land. It is, we believe, universally conceded that the trees do holter and are longer lived grafted on their own than any other kind of roots. Pench stock, it is claimed, will bring apricols into bearing earlier than after bases. This, we think, is true, but is at the exponse of the thrift and committed the first the committed of the tree. Many timing growers are predicting that the givent dynamic for and the amount of apricats trees planted is indicative that the business is overdone. For our single self we have hitle apprehension in that time, for the reason that Califorcia is the only country in the three continents where the apricus prosper, consequently the document for them in a preserved state is almost unlimited.—S. F. Putron.

#### THE IDABO MINE OF GRASS VALLEY.

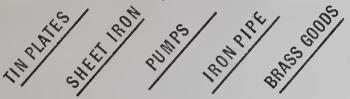
The Grass Valley Union says: The bullion yield of this mine, since 1869, has been \$7,407,400, from which 162 dividends, if \$3,365,050, have been paid. Stock-hidders have revived 45 per cent. of the grass bullion produred, which is equal to \$1,086 per shire. A mine that gives \$45 to stock holders out it overy \$100 it produces is the land of a marr that it good many lavestors are just now brinting for. The Idaho produced \$535,686 in bullion last year, and paid \$203,500 in dividends. It has done better and worse than this. Last year was the fifth bost year in the history of the mine. It took out 27,559 tons of ore, averaging \$20.64 per ton, at a cost of \$9.83 per ton for mining and milling. The pay chitte on the 1,100-finit level has been exhausted. Finit, 200-foot level and stopes have not done very well for the past year, turt are expected by do better hermifter. On the 1,300-foot level the ledge is live and one-balf feet wide, ou an average.



For Cooking, Parlors, Offices, Halls, Bed-Rooms, Churches, Stores, Etc.

THE LARGEST STOCK AND GREATEST VARIETY WEST OF THE ROCKY MOUNTAINS.

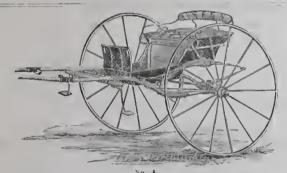
Over 500 Different Sizes, Styles and Patterns to Select from.



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EUREKA CART HORTOP'S

Different Styles The Best Style Curt now In new Easy Riding, Staple and very With Pole, Shafts or Canopy Top. Manufactured by the RUTHERFORD AGRICULTIVRAL WORKS, RUTHERFORD, NAPA COUNTY, CALCEDUNIA.

Price from \$60 to \$150. HENRY HORTOP, Patentee

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AND CHEMICAL LABORATORY,

524 Sacramento Street, San Francisco.

DEPOSITS OF BULLION RECEIVED, MELTED into bars, and returns made in from twenty to

to forty-eight hours.

Bullion can be forwarded to this office from any part of the interior by express, and seturns made in the

Careful Analyses made of ores, metals, sails, waters, industrial products, etc. Mines examined and reported puon. Consultations on chemical and metallurgical questions.

#### M. T. BREWER & CO., Nov. 30 and 32 J Street,

SACRAMENTO, . - GALIFORNIA

COMMISSION MEHCHANTS & WHOLE-nad dealers in Forcelgen and Danmorth Green and Drial Frills, Frodier, Roney, Nut., Gardon and Plower Seeds, Please give us a trial, 40 mml 33 J Gtreet, Succession to Co.

REST not, life is sweeping by, go and dare before you die, something mighty and sun a week in your own lown, 15 until free. No risk, flwerthing new. Capital not require thee. No risk, flwerthing new. Capital not required. We will furnish you everything. Many are making fortunes. Lades nake as note in su men, and loys and girls make great pay. Bealer, it you want husdness at which you rear make great pay all the time, write for particulars to H. Hallert & Co., Fortland, Maine.



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The Leading Merchant Tailor OF SAN FRANCISCO.

NO. 761 MARKET STREET,

Awarded the First Premium -AT THE-

MECHANICH PAHR IN 1882

At Parthaul, Oregian French, Cerman and English Claths

ALWAYS ON HAND. Samples with Self-measurement Sont Free. PERFECT FIT CUARANTEED.



HROAD GAUGE.

#### Winter Arrangement.

Commencing Sunday, Oct. 22ad, 1882,

LEAVE }	DESTINATION.	ARRIVE B. F.
† 0:50 A. M 8:30 A. M. 10:40 A. M. 3:30 P. M. 4:30 P. M. 0:30 P. M.		6:40 A. R. 9:05 A. M. *10:02 A. M. 3:37 P. M. † 5:04 P. M. 0:02 P. M.
8:30 A M. 10:40 A M. * 3:30 P. M. 4:30 P. M	.Santa Clare, San Jose and, Principal Way Stations	9:05 A. M. *10:92 A. M. 3:37 P. M. 6:02 P. M.
10:40 A. M. 4 3:30 P. M.	Gilroy, Pajaro, Oastroville.	6 02 P. M.
10:40 A M.	. Hotlister and Tres Pines.	[ 6:09 P. M.
10:10 a M	and Santa Cruz1	6:02 P. M.
10:40 A. M.	Saltuas, Soledad and Way	6:02 P. M

\*Sundays excepted, tSundays only (Sportmen's

Stage connections are made with the t0:10 A. M. Train except Pescalero Stages via San Mateo, which connect with 8:30 A. M. Train.

#### EXCURSION TICKETS

Sold on Saturdays and Sunday mornings—good to return Munday—
To Sau Clera or San Jose, \$2 50
To Monterey or Santa Cruz 500
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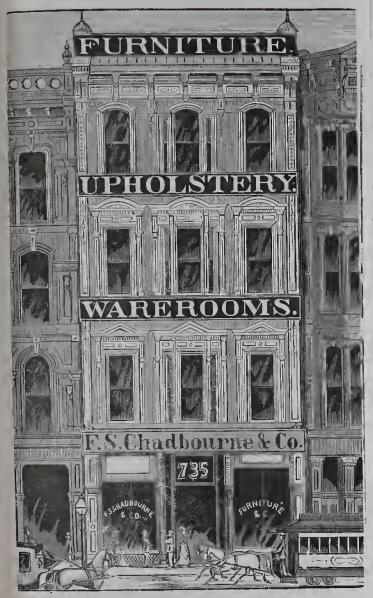
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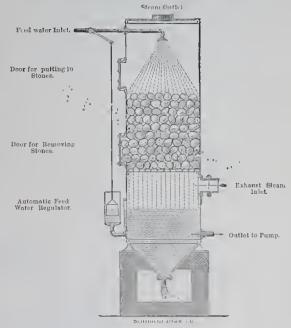
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#### SANTA CLARA WINE BELT.

Vines on or near Stevens Creek—The Faxorlie Varieties—The Fature of the Objiclet.

An experienced viticuliniast furnishes the Sauta Cruz Sentinel with the following valuable informa-

A trip through what is called the " Wine Belt" of Santa Clara Valley is now interesting and instruc-tive. The center of the region is on the Stevens road. It begins about a mile beyond the Meridian road, and extends northward to Mountain New, and southward and ex-tward, following the conrect of the minimains, to tilray. It includes on the average about two miles of the valley, and extends a considerable distance into the foot-hills. The soil is a redinish gravelly ham, which is pe-culiarly suitable for the production of wine grapes, although, of course, it is somewhat variable. There are guiches, for instance, in which the red soil is covered by a deep, strong, black vegetable mold, too rich for vines; and, again, there are mixtures of both soils. There are also peculiarities of conformation, which are said to make considerable, difference both as to the flavor and ripening of grapes. Some lots slope to the north, and others to the east and west; and though AU AU grow good grapes, those that have a gentle declination to the southeast are said to be the best of all. They are protected from the north and northwest winds, and they are open to the sun the whole of the day, Consequently the grapes ripen earlier, and are less liable to be damaged by early or late frosts. for, therefore, such situations have been carefully selected by experienced viticulturists, and the reult bas fully vindicated the wisdom of their course in that respect.

The Stevens' Creek road runs through about the center of the belt, and the largest and most flourisbing vineyards lie on both sides of it. A little to the north S. P. Collins of San Francisco, bas a tract containing 250 arres, the greater portion which is covered with flourishing vines, and the rest is now in course of preparation for planting during the coming season. The lot is in splendic condition, the ground having been carefully se The lot is in selendid lected and well prepared, and the outlings well cultivated through the season. J. T. Doyle, also of San Francisco, has 150 agres of vines in good conditiou, and is preparing to plant another large tract. This gentleman has also creek d a large brick building with cellar, for the manufacture and storage of wine, which is fitted with all the most approved appliances for the business, and must have cost alto gether, nearly thirty thousand dollars. A. C. Hollenback has 120 acres of vineyard, and J. P. Pierce, 100 acres. The latter gentleman has also made elaborate preparations for the manufacture of wine. and will probably make arrangements to purchase and use grapes grown on the smaller tracts around him. Then there are numerous tracts, ranging from twenty to fifty acres each, planted to vines, and lutended to supply the several winc presses that are to be put up by the larger growers. Among the most notable of these is that of J. B. J. Portal. This gentleman is a Frenchman, and comes to the business with the experience of ages on his brow, so to speak. He has made an excellent selection, both as to soil and situation, and by his success in wine-making from a smaller vineyard, has alresdy achieved a high reputation, and has demonstrated that Santa Clara Valley has no superior in the world in Its capabilities for the production of the finer kinds of Burgundy. He has forty acres just coming into bearing, and will plant fifty acres more next season, all of the choirest Burgandy

Great pains have been taken by all in this region to exclude inferior or diseased vines. The very choicest cuttings have generally been selected without regard to the price. Indeed, several tracts were not planted hast season breanse of the difficulty of obtaining a sufficient number of cultings of the varieties desired. Zinfaudel appears to be the favorite, and next to it comes Charbonneau. The other principal varieties planted are Trousseau, Mataro, Malvoise, and Pent Pinot. But in every case good, healthy cuttings have been planted, and the result is a smaller percentage of loss, and a healther and more vigorous growth thau can often be seen in young vineyards.

And this is lent the beginning. Most of the land in the district above mentioned will surely be planted with vines within the next year or two. Soveral large capitables have taken bold of the business and are preparing to plant from five hundred to one thousand acres rach. The result of this activity is everywhere seen in the increased price of land and in the said improvements which are going on, fand that last year could have been purchased at \$60 an sere now ranges from \$100 to \$200 an acre, with plenty of purchases from \$100 to \$200 an acre, with plenty of purchases at that. And, indeed, why should one healtate about the expenditure of a free dullars an acre on the flust cost of land when he can get 8 tens of grapes an acre, and recuve \$30 a toy for than? It is almost like column morey, and while it lasts is certain to keep hand at very high figures. And there appears to be no good reason why it should not had. Thosell and the climate are thors, and it only requires trains, experience and money to make these communicar returns purchasent. The money is already forthcoming, and the, brains

are there, and it certainly should not take long to gain the necessary experience under existing conditions.

#### FRUIT IN CALIFORNIA.

A correspondent of the New York Staatz Zeitung, a first-class Gorman paper, gives the following interesting and instructive view of the first interests to Culturate:

California fruit los becomo an important staple in the markets of the world, and is sent, caused, preserved and dried, to all countries. It is the wonderfully comprehensive character of fruit cul-ture in this State that constitutes its most striking trait. The variety of fruits surcessfully grown bere far surpasses that of kny other region of equal extentional it keeps on continually increasing by the introduction of now grades and species from every part of the globe. Although semi-tropical tude, in the colluties of Ventura, Sunta Barbara, Los Angeles, Ban Bernardino and San Diego, it bas been adjusted successfully in other parts of the Slate, and even as far north as the border county of Shasta. Many of those who grow fruit for their use raise, side by side, that of the tropics and that of the north temperate zone—the currant and the orange, the cherry and the fig, strawberries and pineapples, bananas, dates and apples. California fruit ranches display apple, pear, peach, plum, prune, apricot, nectarine, cherry, quince, fig. orange, lemon, lime, pomegranate, olive, English walnut aml almond trees. The fig tree gives two ries and sirawherries arrive in line condition at Deuver after a four days! Journey. Very strihing, also, is the size to which fruit trues attain. The apricot grows to the dimensions of a large Eastern shade tree. Phenominal size and growth, indeed, are characteristics of all hinds of trees in this elimate. The Anstralian blue-gum or encalyptus, sucosts up twenty feel in usingle year.

California apples are distinguished for extraordinary size and splendial color. The most highly prized is the hammas by Il flower. They are grown successfully as far south as San Digay runnty, near the Mexican border; but it is in the hilly counties of the north, where the whiters are redder, that they are judiest and limitiest. Bartlett prais have been remarkably profitie, and maler the most favorable conditions have yielded it not profit of \$3,000 per acre in a single season. The apricot has given some of the best results. The folicitot flower of our apricot has made it very popular for table uses, as well as for canning and drying, and, the crops being enormous and the prices good, it has head a profit able fruit to grow. In 1879 a twelve-acre apricot orchard near San Francisco, givited \$10,000 pounds of fruit that was sold at 5 rents a pound. This netted a profit of \$1,200 per acre. On the bunks of the Sacramento, about twenty unless below the city of Sacramento, there are a large number of profitie peach ranches that in good years have preduced \$27,000 prounds of fruit to the acre.

One of the most important of the industries developed in this State has been the canning of fruit, California cannot fruit, while prized for its size.

RAILROADS IN THE MOUNTAINS.

crops a year in the southern counties of the State. All kinds of herries grow in profusion, and some rather and stay longer than in the East. Strawberries are usually to be had the whole year round, and always from March to January. Some of the nost valuable features of California fruit are the freedom from worms, the fitness for drying, and exemption from any form of disease,

It has bren said by some that California fruit lacks flavor and juiciness, and in in these respects inferior to Eastern fruit, but the a sertion will not bear a fair test. There is fruit grown in California that is not of the heat quality, but there is not much of it, and revery year the quantity is decreasing. Improvement in grade and species is going on continually, and the care and skull displayed are constantly becoming more marked. The average fruit raised to-day is of a high order of excellence.

At the heginning of last year the State possessed about 6,000,000 fruit trees, among them 2,400,000 apple, 800,000 peach, 300,000 peac, 260,000 plum and prum, 130,000 cherry, 250,000 apitent, 50,000 dig, 1,000,000 orange, and 140,000 lemon trees. Trees hegin to hear at a much variler age than in the East. This is one of the great advantages, posumiarily considered, of fruit culture in this State, Peach trees often hear the second year etter planting; apple trees legin to yield in the third year, and hear about any the fifth. In this dry ellmate, the, ripe fruit he eps in good condition much longer, and he hardler them it is in moletor ellmates. This is particularly noticeable with fruit of a purishable a character as plums and cherries. California cher-

color, freedom from worms, taste, and flavor, can be sent abroad at lower prices, as a rule, than that of South European countries. Only the canned a pricots and metarines of Portugal and France can be pixed in the Lombon market at lower prices than the same hand of fruit from this State. Cameries of fruit and vegetables have been es-

tablished in all the important fruit districts of this State. The produce thus put up in 1841 aggregated 11,400,000 cause, of whole 6,000,000 were fruits and berries in their matural furm; 700,000 were pellies and sauces, and 4,700,000 kitohon vegetables, the last item inetuding 3,000,000 cause of tamitoes and 500,000 of grein peas. The Sain Francisco cauncries put up 8,000,000 cause, and those of San Jose 2,000,000. Peaches, pears, aprieots, plums, and cherics are the fruits most used here for coming. The aprieot is regarded as the most prolitable. The best peaches and aprieots are obtained from the ranches along the Sacrationto to and from the varia and sheltered fruit tailt of Salamo county, not far tron this city, where large fruit ripeus somest, and therefore furbra this best prices. The best plums come from Nayas and Somana counties, and the best cherrles from Alameda, across the luy from this city. The market privae in large quasi-titles per dezen cause of 2½ pounds each arts, for table fruit, \$1.85 to \$2,500; for plu fruit, \$1.40 to \$4.60; for humature, \$5 cents to \$4.10. The comparies pay for panches, plums, aprients and parse, \$50 to \$60 a tim. Neutrinos, apples, numerated grapes, strawherries, idanhaerrips and rasphageles are caused its a base execut than other finit. The berries are sold mainly to the home markets.

New canneries are being prected in the various frutt districts. One of the latest is at the Presoculony, in the San Jonquin valley, where fine approved a region with the wid of artificial frigulton, the right of which is sold by a corporation to the rolouists at the rais of \$20 to \$50 an agre. Whateover canneries are established the fruit grover may count upon a profit of at least \$100 to \$200 an agre. These canning factories have a market in Europe for all the fruit they our export, and the demand for their wares is constantly increasing. Thus, and so men, women and cludden faul employment in them.

#### A TRIBUTE TO FARMERS,

The following worthy tribute to the farmer is from the pea of Ralph Walilo Emerson:

The glory of the farmer is, thus, in the division of labor, it is his part to create; all trade rests at last on his primitive activity. He stands close to nature; he obtains from the earth the bread and ment; the food which was not be causes to be. The first farmer was the first man, and all historic nobility rests on possession and use of land. The larmer's office is precise and important, but you must not try to paint him in rose colors. You cannot make pretly compliments to fate and gravite. tion, whose minister be is. He represents the ne-cessitive. It is the beauty of the great ermomy of the world that makes his comel ness. He heads to the order of the season, the weather, the soil, and crops, as the sails of the ship bend to the wind, He represents continuous hard labor year in and year out, and small gains. He takes the pace of seasons, plants and chemistry. Nature never hur-tine; atom by atom, little by little, she achieves her work. The furmer twe himself to Nature, and acquires that lifelong patience which belongs to her; he must wait for the crop to grow. His entertainments, his liberties and his spending must be ma farmer's scale, not a merchant's. It were as false for farmers to use a wholesome and massy expense as for States to use minute economy. He has great trusts conflided to him. In the great house hold of Nuture the farmer stands at the deer of the breadroom and weight tach loaf. It is for him to say if men shall marry or not. Early marriages and the number of births are indissolubly con nerted with an abundance of food. The farmer is a boarded capital of health, as the farm is of wealth, and it is from him that the health and power, moral and jutellectual, of the cities come. The city a always recruited from the sometry. The men is cities, who are renters of energy, the driving wheels of trade, and the women of beauty and genius-are the children and grandchildren of the farmer and are spending the energies which their fathers hardy, silent life accumulated in frosty forrows He is a continuous benefactor. He who digs a well constructs a stone foundation, plants an orchard builds a double bouse, reclaims a swamp, or so much as puts a stone seat by the wayside, make the land so far lovely and desirable, makes a for tione which he cannot carry away with him, but which is useful to his country long atterward.

Who are the farmer's sirvants? Geology and chemistry, the marry of the air, the water of the brook, the lightning of the cloud, the casing of the worms, the plow of the frost. Living before is was born the sun of ages decomposed the rocks mellowed his land, soaked it with light and head covered it with vegetable film, then with forests and accumulated the sphagrum whose decays made the prat of his mendow.

#### RAISIN MARING.

In all parts of the State there is an unusual tendency among hund owners and farmers toward vitioniture, and it has been said there is danger that the business of growing raisin grapes will be overdone. But there need not be excess if all who enter the husiness thoroughly understand it and grow the right kind of grapes. This matter was thoroughly discussed and made clear at a recent fruit-growers' convention held at San Francisco. At that runvention a letter was read from James Boyd, of Riverente, in which that practical vinculturalist stated that the raisin business of the Siste was in its infancy. Mr. Boyd misists that we can make in this State the best quality of raisins. All that is peressary is experience and the selection of the proper climate and lands. These we have almost everywhere. Mr. Boyd says:

The lotar cost of growing and making them into raisins is about \$57.10 an aero on one-year old vines. For each succeeding year \$25 annore should be added for additional labor. The returns after two years would be \$80 for the third, \$210 for the fourth. \$320 for the tifth and \$400 for the sixth year-4 total of \$1,040 against \$370.10 for express. For picking and packing \$320 would have to be expended, leaving \$376.30 an aero at the end of six years.

In sublition to the above statement, Mr. Boyleited an lustance where one grower sold 615 bases from two across, in about thirty months from the time of planting, realizing over \$1,200 at a coast of not over \$300. Mr. Boyd is a practical and religible grower of raisin grapes, and his restinoing oughlit to a subfattery to all who propess to \$6 into the raisin business. Marysville Appeal.

J. P. H. WENTWORTH, Editor and Proprietor,

## SAN FRANCISCO, MARCH, 1883.

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#### SAN DIEGO COUNTY.

Area - Topography - Reurces-Soil-Cli-mate, Etc.

Principal City, and Other Towns, Described,

By G. D. H., Traveling Agt., No. 2.] San Diego was the first county settled in California. As early as 1542, and only 60 years after the discovery of America, a party of whites, under Cabrillo, paid a visit to the beautiful bay from which this section takes its

In 1769 Europeans began establishing missions under the Padres of the Franciscan order. This called settlers, and missions were founded from San Diego to Sonoma. San Diego was first and justly chims prior settlement to other parts of Califor-

The county of San Diego v organized in 1850, and is the second in size in California, as it has an area of 0,580,000 ac which is naturally divided into three distinct sections.

The county is bounded on the north by San Bernardino, on the south by Lower California, on the east by Arizona (the Colorado river forming the line), and on the west by the Pacific Ocean and Los Angeles county, these forming the southwest corner of the United States.

#### Natural Division.

As above stated, this county is unturally divided into three reparate sections; the first to be mentioned being that portion lying east of the Sun Jacinto untains, embracing more than half of the county, and is part of the great Colorado desert—a barren waste, and, in many places, below the sea level. It is characterized by said hills, granite points, dry lakes, mud volcumes, hot springs and a growth of eacture

The second division lies west of the San Jacinto mountains, comprising unmerous valleys plains, which rise in the west to the foot-hills of the Coast Range. These hills and mountains are covered with considerable timber, which who be of great benefit to the unity at no distant day.

known as mesa lands. On this division most of the inhabitants are to be found, for it is well occasional fogs. watered during the greater part of the year.

Climate,

The climate of San Diego county, as well as the soil, is quite diversified; in the western divis-ion, bordering on the sea, the air is mild and bealthful, and can not be termed too wavn. The scattered all over the county. There are over 30 purity of the atmosphere has become known to persons suffering from consumption and other dis-

cases of the throat and lungs, who after a residence here of a few months, find relief, and often perfect a cure. The cool fresh trade winds of summer modify the best and prevents malaria in my of its dreadful forms.

Diversity of temperature exists according to place and elevation, so that a climate may be found to suit any taste. On the Colorado desert the climate is exceedingly warm, while at Juhan,

scribe them all, so will mention one, the El Cajon, which, through the kindness of J. H. Benedict, Esq., we were enabled to visit. The valley is locuted some fourteen miles from San Diego, and contains 18,000 acres of rich smooth land. main valley is from five to six miles long and from three to four in width, forming a beautiful plan. From the principal valley run numerous branches or pockets, in themselves large enough for a small

that we have tasted. The apples were also of excellent flavor, and, to our surprise, resemble apples of the most favored locality in the Eastern States, as regards solidity combined with the acid taste, qualifications not to be found in fruit of many parts of Ualifornia

Changes also produce well, as is evidenced by the fine orchard of Mr. Chase, which equals any in the county. Olives seem to be a natural product

of the El Cajon valley, and it is surprising that, long ago, this favored valley had not attracted the attention of capital and energy, which, at the pres ent, is concentrating there. is to the credit of J. H. Bencdiet, and associates, of River-side, that this beautiful valley is opened to the settlement of those who desire an excellent limate, in a country where all the semi-tropical fruits are easily grown. The proprietors have placed this land on sale at quite reasonable figures, and we think that the valley will become one of the most desirable ones in the State. The

#### Bay of San Diego

Is one of the few natural harbors of the Pacific Coast. It is some twenty miles in length by three in width, and almost land locked, thus giving shelter to vessels while anchored in its waters. The entrance is 600 yards wide, with a depth of 22 feet mean, which is sufficient to float any vessel that may call at San Diego. The bottom of the bay, its entrance and approaches, are good, as there are no rocks to endanger the passage of vessels. On the shore of this lovely bay stands the

#### City of San Diego,

Which slopes towards the bay, affording excellent dramage. This city has a population of 3,000 people.

Many the business blocks do credit to the city, and with numerous handsome residences one sees, combines to give credence to the fact that San Diego las a progressive spirit. The public buildings compare favorably with other parts of the State; a \$55,000 court house, with its handsome gardens surrounding, is a pride to the town

The Horton House, the management of W 12 Had-ley, is one of the finest hotels in Southern California, as it contains 110 rooms, which a contains 110 rooms, which are bright, airy and lighted with gas. For those seeking a winter resort we can assure them that they will be well cared for by the excellent land-

Several other comfortable hotels and lodging houses may

be found in differents parts fo the town.

The public school system is excellent, and the school house, a gift of Hon J. Rins, is a fine building, nicely located, and commanding a fine view of the city and bay

#### Business

San Diego hoseseveral representatives in the mercantile line, among whom are A. Schnender, who has a well-filled store, contaming books stationery, wall paper, paints, glass, toys, fancy goods, etc. He has been established since 1869.

U. H. Shepard also carries a fine line of books,



SCENE ON THE COLORADO RIVER,

The third section lies between these foot-hills—situated in the foot-hills among the mines, the and the occas, the surface of this section being—climate is all one could desire; at San Hiego the climate is all one could desire; at San Diego the weather is cool, tempered by the bay winds and occasional fogs. It is a noted sanitarium, where summer reigns perpetually.

band and Fruit-

The tillable land in San Diego county is not in scattered all over the county. There are over 30 valleys, embracing from a few hundred to twenty thousand acres each. We have not space to de-

colony. The soil is of the colebrated red had of California, very rich, easily tilled, and its qualities for retaining moisture are far better than any of the heavier soils, and is naturally adapted to the production of limit, and especially the vine. One of the principal features of this lovely valley is the fine fruit produced without the aid of arrigation.

Wu had the pleasure of sampling some raisms grown by Mr. Clark, with only the rainfall and natural moisture of the soil. To say that they were superb would be a tame expression, for they excelled any raisins, either foreign or demostic,

stationery, etc., and has, also, the news donot at his business on Fifth street opposite the Commercial bank.

The Consolidated bank of San Diego is a reliable institution, and has the confidence of the public. Bryant Howard is cashier.

#### Pross

The San Diego Sun and Union are both good papers, and are well supported. They are trying to make known the resources of the comply, and are deserving of the high estimation in which they

#### Real Esticte.

Real estate is active, and among the leading dealers is the firm of Fairebild & Angier, who are located on Fifth street. We can recommend them to be gentlemen of integrity and good business qualifications, well informed upon real estate interests in San Diego city and county.

Joseph Faviro is also a large desler in real estate, his place of husiness being on Fifth street, where he is to be seen during business bonrs.

#### Shipplege

San Diego is naturally adopted as a forwarding point, as she has communication every five days with Sau Francisco—482 miles distant—as Goodsll, Perkins & Co.'s commodious steamers ply between those ports. The fare is \$15. San Diego is connected by the California Southern to Colton, and by the Southern Pacific, via Los Angeles, to San Francisco (548 miles), thus giving the protty little town all the advantages necessary for the transportation of produce.

#### Statislical.

The latest records give the total value of San Diego's real estate, etc., at \$7,321,747, double what it was the year previous. There is also a marked advance shown in the amount of land enclosed, which is 5.162 acres, about one hundred per cent more than last year's report. The land cultivated is 22,997 acres, an increase of over 8,000 acres since the last report. There were 11,209 acres of wheat sown, yielding 420,499 busbels; 3,260 acres of barley, yielding 58,024 bushels; 8,125 acres of hay yielded 8.914 tons. In the county there are 140,286 head of sheep, from which were shorn the fine amount of 950,354 pounds of wool. Bees produce well, for during the past year, in 21,278 stands of hees, 246, 989 pounds of honey were made. There are several thousand fruit trees of all kinds, both decidnous and citrus These are in bearing condition as well as several hundred acres of vines, and more are continually being planted.

#### National City,

The next town in size, lies about four miles south of San Diego, and is the terminus of the California Sonthern Railroad. This is where the railroad This is where the railroad shops, etc., are located.

National City is located on a fine level plain overlocking the south arm of San Diego hay. railroad company are building a fine wharf to connect the terminal point with a line of their steamers to ply between National City and San Francisco.

The success of National City is due to Kimball Brothers, who do not leave a stone naturued to advance the interests of this section. We did not notice a squirrel in our travels over the National ranch, which, we suppose, is due to the use of A.

R. Booth's patent squirrel poison.

The International botel, located here, is a fine three story structure containing 30 rnoms, all fitted up with elegant furniture; the beds are excellent and the table abounds in all the dellcacies of the geason. It is just the home for the traveler who a seeking either health, pleasure or recreation.

#### Press and Rusiness.

The National City Record is edited and published by W. Burgess. It is a great belp to the city and deserves good patronage.

There are several stores, livery stables, etc., sll doing their quota of business.

Numerous bandsomo residences are to be seen here, as well as orchards of olives and oranges, all in fine condition and on the road to further pros-

Taking the Irain for Colton one passes through San Diego proper and Old San Diego, with its ancient adobe buildings and tile covered roofs.
We contrast the old and the new town and notice what a change time has wrought, as the old town, in a measure, has gone to decay, while the new la

#### Santa Murgarita Valley.

constantly being improved.

We proceed, on the road, through Santa Margarita valley, which is a fertile body of land, the property of J. C. Flood, of San Francisco. It is ed that in the future this section will be divided and furnish homes for thousands of inhabltants, who will improve and bring it into the high state of cultivation of which it is worthy.

#### Temecula Canyon and Town.

After we leave Sants Margarita valley, we enter Tem cula canyon, one of the protty and romantle apots of this lovely section. In the midst of this canyon is the station of Fall Brook. Here is a picturesque dwelling spot, with grand scenery game in abundance. One who is worried with the active daths of business could be well repaid by a

residence of a few weeks in this most lovely nook in San Diego county. After a ride of twelve miles Temceuls is reached. This is a new town situated at the head of a large valley, of which the Pejol rapeli is a part. It is here where large quantities of grain and stock are grown. Mr. Pomeroy, of Los Angeles, has recently subdivided and opened this section to settlement. Here large quantities of water are suitably located for irrigation. This gentleman has capital audenergy, much that is uecessary to a successful and permanent undertaking.

#### Mining Towns.

Julian is one of the principal mining sections of the county, and is surroundeed by grand scenery.

In addition to the mining it has agricultural advantages and a sanitarium for those afflicted with

Banning is also a mining town in San Felipe

nyon, and contains several stores, hotels, etc. Fort Yuma, which was established as early as is a mining town, and has the reputation of being the warmest locality in the United States.

#### Other Towns.

Bear Valley, Bernardo, Ballena, and Forest City are among the smaller settlements of San Diego

Taken as a whole. San Diego is a wonderlul county, with great resources that await the sturdy emigrant and capitalist to develop, and which is well worth the effort which will so well repay them in

#### OSTRICH FARMING.

Those of our readers who are curious to know something about ostrich farming will gather ininstruction from the remarks of C. J. Sketchley recently delivered before the Farmers' Club of This gentleman has had New York city. perience in the business at Cape Colony, in Africa. He furnished bis hearers with the following stat,

Weathers to the amount of \$6 250,000 are ported from South Africa every year. Nine-tenths of these feathers are taken from tame birds. I hope to be shie to convince you before I finish these remarks that ostriches pay considerable bet ter than any other kind of live stock. The breeding is managed in the following way: A pair of birds, which cost at the Cape from \$750 to \$1,200, or what we call a set-three birds-are inclosed in a lot, varying in size from 40 by 60 yards in two If the hirds are in good condition they will soon begin to lay. Then the eggs are taken from them and put into an incubator for hatching. They will lay 30 eggs before setting, and, if well egin again in two or three weeks. The number of eggs each bird will lay varies from 40 to 90 a year. One set of three birds, from June 30, 1871, to June 30, 1873, toid 188 eggs, which produced 133 cks; of these 18 died, leaving 115 young hirds. Of these 74 were sold at three months old for £16 each, and allowing the remaining 41 to be worth only £12 each, we have a return of £1.676 from one set of birds. The next year the same set laid 113 eggs, producing 77 chicks, and the first six months the third year they laid 97 eggs, producing 81 chicks. The average increase is from 30 to 45 chickens a year from each pair. The chickens are worth, when a month old, from \$40 to \$50 each; a year old, \$100; two years old, \$150; four years old, from \$200 to \$250. At five years, when they begin to lay, they are worth from \$600 to \$1,000 a pair. The chickens require careful attention for the first three months, after which time, until breeding, y run in a flock like sheep, and mustered plucking every seven months. Each pair of full grown birds will furnish feathers worth \$60 at each period of plucking, or \$120 worth every fourteen months. The white ostrich feathers bring in the London markets from \$120 to \$150 a pound. The diseases to which estriches are liable are few

#### DIVERSIFIED FARMING.

A correspondent of the San Jose Times helieves in diversified farming in Napa and other parts of llie State. He says:

Take the well-known Napa valley for inslance; there the culture of the vine is erceping from the valley up the high-covered hills, higher and higher, even to the summits. And it is said that on the hills the vines grow even better than in the valley. Up, up the steep sides of the magnificent mountain of St. Helena, northward from Calistogs, the culture of the vine is bringing its blessings, though perhaps these blessings would have less drawbacks ere they cultivated for raisins instead of wine Where grapes can grow, however, the larger fruit must also be profitable. Even in many parts of Lake county, now given over to almost profiless sheep-raising and hay crops, it is probable that a concerted movement for diversified farming would onsure liberal returns. But as long as a constary bollef is prevalent in any locality, one or two men can not succeed in enterprises which need general concurrence to onsure success. Sheep farming and cattle-raising as main occupations in a hilly country, mean bad roads and few of them, no markets, illiteracy and intemperance. Life in such places is not worth living; but let a hundred or so in one anch neighborhood undertake diversified farming, and a new and improved social order would arise.

#### THE HEART OF SACRAMENTO VALLEY.

Will. S. Green, the accor plished editor of the Coluss Sun, thus speaks, in the course of an editortal in bis paper, of the inture of Column county:

When we othern that the Sacramento valley is to be the center of wealth and population of the Pacific Coast, and that Coluen county will be the heart of the Sacraand that Colles county will be the heart of the Sacra-mento valley, we are only giving ulterance to what wo expect to see with our own eyes, although the frosts of 50 whiters have passed over our bend, 33 of which have been in the Sacramento valley. If we should vary from a long line of vigorous ancestors, and find, pre-maturely, a resting place by the side of the loved con-

maturely, a resting place by the side of the loved com-panton goue before, there are many, no younger, who will see the fulfillment of all we may here write. Sixty miles from north lo south, and twenly miles from east to west, is an unbroken valley of fine allnyial deposit. The small amount, proportionately, of tule deposit. The small amount, proportionately, of tule lands are comparatively easy of reclaimation, and the few alkall spots will soon disappear; but we have a thousand squares miles capable of producing snything that man's necessities or man's coprices may destro. The soil of the foot hills is all rich, and will produce The soil of the foot-hills is all rich, and with promiser theyards equal to the finest in Europe. The valleys lu the foot-hills, and the mountainers portions of the county have a soil unequaled in ferbility, and most of them have water for irrigation when needed. So that of our estimated 2,800 square miles, over 2,000 will see a line state of emilivation.

Just on our northern boundary, Stony creek emerges from the foot-hills, after running 40 miles northeast, furnishing water for many a little valley and hillside furtishing water for many a fittle valley and illinear orchard and vilueyard. Here it will be taken in a hoge ditch along the fool-bills for the entire length of the county, watering all the land between the fool-bills and the "trongh" (where the overflow from the river and the foot-bill waters meet). It will not furnish water for all this land to the summer, but experience has proved that this land flooded in the winter will grow profusely anything that is planted, fro delicate berry that can be grown to the hardy wheat plant. This will come soon.

Geo. F. Packer, one of the most practical and conservative common sense men in Coinsa county, is now moving in the matter of a ditch to be taken out of the river near the mouth of Stony creek and brought along side of the levee as far down as the town of Colusa. His idea is to make a levee and irrigation district comblined-build a levee strong enough to keep the floods off the land and have another embankment on the west side to hold the waters of the ditch. The cost of west and to be within this vost area of land will be com-paratively nothing. In speaking with a practical farmer on the line of the ditch, he said he would rather bave 100 acres set in alfalfa, that could have a certain flooding every year, than the whole 800 acads of his present farm. This plan affords cheaper irrigation present farm. This plan amoras cheaper irrigation than can be found in any other place in California, and the land is equal to any in the known world. Any of it will produce ten tons of alfalfa hay a year to the acre, besides justurings for six months in the year And the market for hay is not overstocked until all th nations of the old world have been surfelted with meal nations of the old world have been surjected with mean Cheap and quick transportation is bringing every month to our door. This scheme now advocated by Mr. Pæcker, and others, will irrigate about 70 square miles of land, and when it is all done, a quarter section will be a big farm, and 80 acres the aveange. Over will be a big farm, and 80 acres the aveaage. Over 500 families between Colusa and Jacinto. Dr. Glenn's big ranch will quickly meit into small farms, for it will become too valuable to think of planting to wheat or to anything that one man can manage on a large scale. In twenty years Colusa will have a rural, farming population of 50,000, and her towns and village. will contain as many more. It is the start at all things that is slow of counsequencest. We thought it would start sooner--start before the much poerer region of the San Joaquin valley, but it so happened ne rich men turned their attention in that di

# A NEW FRUIT AND SHADE TREE, We clip the following editorial from a late nur

her of the Marysville Appeal, which is worthy of reproduction:

At a late meeting of the Slate Horticultural Society, Dr. J. Strentzel, who resides no r Martinez, Contra Costa county, recommended the eral introduction of the pecan tree in California, the climate of which is said to be well adapted to it. The pecan wood is hard, the nut valuable, and the tree handsome, and free from all parasites which are so seriously threatening all the fruits of this Slate. The value of the nut may be inferred from the fact that the last year's erop in a single county in Texas, sold for about \$60,000. fault found with the pecan tree is, it is too slow a grower for fust California. It is like the orange, only a little slower, and does not bear until about ten years of ago. Mr. Strontzel recommends that nuts for planting be obtained from dealers, in preference to getting trees from the nursery. seed should be planted in a box of damp sand transplanted first in March or April. A double row of trees planted around farms would make an excellent wind break, while furnishing a delightful shade. George Briggs, the ploneer fruit-grower of Yaba county, who owns an extensive fruit orchard and vineyard near Davisville, has peem trees growing that are fifteen years oil, and hearing alundantly. At the Boseol orchards the pecan trees are also growing vigorously, as well as in other places They grow without brigation, and will thrive anywhere in the valley. As the serds cost but a trifle, and the later of planting can be done at old times when the farmer is not leasy, every farmer should plant two rows of pecan trees, so as to break the north winds.

#### THE LINCOLN POTTERY Mining and Scientific Press, of recent data

coursed ou one of Placer county's Industries as follows: In a recent issue we made mention of an imputrant In a recent issue we made mention of an important mining enterprise in western Placer, commonly knows he the Linroin coal mine; but among the various and he the finition contained, but stoog the various and happerion industrice, under the head of mining, tor which Placer county ts justly celebrated, none helds a higher place among substantial and permanent indus. rices than does the manufactory known as the Lincoln Pottery, situated at Lincoln, Placer county, and to the immediate neighborhood of the coal indue. Adjacen to the cool fields, of which we have heralofore spoken, is situated an odd elevation of land, known as Rocky Ridge, which rises abruptly at its easiern extremity, from a comporatively level country, to the height of about 100 feet above the level of the glains. Its eastern

end is about eight miles west of the base of the foot hills of the Sierra Nevada monniains, and the ridge ex-tends westerly about two miles, gradually sloping to a

level with the Sacramento valies From the costern and abruptty sloping end of this ridge is taken the clay from which the Lincoln poticty derives its manufacturing material. Here, perhaps one of the largest deposits of fine clay in the world.
It is obtained, at comparatively no expense, by simply digging down the edge of the bill and hanling it to the works, about half a mile distant, on the California and Oregon railroal. Ages will not exhaust this deposit, which is from 20 to 30 feet in depth.

Mysers. Gladding, McBean & Co., who own the pot-tery, keep constantly employed a large force of mea, which, together with the force at the coal mines, makes Linroln a lively and flourishing town. Here are man-ufactured beaulitul wases, wrns, flower-pots and vessels of various designs. The principle manufactures, however, are iron-stone sewer pipe, chimney tops, are brick and terra cotta ware. In burning these articles, large amounts of wood are consumed, which also adds much to the welfare of this vicinity.

At the late Mechanics Fair, among many interesting

and beautiful articles exhibited as the productious of this pottery, was a magnificent large double antique nuntial vase, which is a reproduction of one exhibited th Mt-Popolitan Museum, Central Park, New York, and which 18 known to be 2.200 years old. It was made to commemorate a princely marriage, and after the death of its owners was placed in their tomb where it re-mained for more than twenty centuries, until taken then from and sold to its present owners, the Misses Bruce, who leaned it to the above museum, where it was nuch admired for the unique composition of the vases, and as showing the degree .1 perfection atlaned in the crematic art at that early period. As the original of this vase tal never been copied, owing to the dit ficulty of making, joining, drying and burning so large a piece, and the lack of competent artists, Messrs. Gladding, McBean & Co., who have one of the most skillful workers in plastic ctay in the United States. caused this reproduction to be made in order to show their artist's skill and give to the people of this coast an opportunity to see an unique and bear piece of terra cotta. Placer county should be cre with four big marks in mining enterprise, gold, with four big marks in mining enterprise, gold, itself coal, and tast, but not little, terra coila.

#### COST OF HOP CULTURE.

Several inquiries have been received at this office about the expense of planting a hop field. In order to supply this information we have consulted several hop raisers. Through information thus gathered we are able to present an itemized exhibit of the cost of planting, cultivating and curing an Ground rent and the cost of clearing are not included in the estimate;

Plowing and harrowing \$ 5 00	
Roots, 1.640 at one cent each 16 40	
Poles, 820 at 24 cents each 20 20	
Setting poles 1 00	
Twine and twining 8 00	
Cultivating 15 00	
Training, a continuous task 5 00	
Succoring and stripping: twice 5 60	
ant 00	
Total \$75 60	

Added to the above is the cost of picking, curing. bailing, etc. Estimating the first crop of an acre of new hops at 600 pounds of cured, packing would cost \$21, curing and bailing \$15, and there would still remain an ontlay for shipping, commissions, insurance, etc. The ontlay for an acre is \$114, and the return is 600 pounds of merchantable hops.-Thiah Press.

#### STORAGE RESERVIORS.

The Los Angeles Herald says: Were it possible to cover simultaneously the hills and plains of our county with a luxuriant growth of frees, it cannot he doubted that we should immediately receive an annual rainfall equal to that of some other regions sltuated in the same latitude. As the planting of trees in anflicient number to bring about the in-evitable result must of necessity he slow, so it must be many years before we can depend entirely upon our rainfull. That our bitherte unbroken dry seasons will be interrupted henceforth by occasional rama is true, but the annual amount of meisture will not be sufficient for our agricultural needs. Therefore, for those of the present generation, at least, the necessity for storage reservoirs still exists. That these reservoirs, in some instances, will be costly, is a matter of course, but what is will be costly, is a matter of course, but what is costly is not necessarily extravagantly expensive. There is a very conshlorable amount of this county now valueless because of a lack of water, and this land is an situated that it can, almost all of it, he reached by water from storage

# WILL THE PRUIT MAIRET BE OVER-

A correspondent of the Los Angeles Semi-Tropic, thus discources on the question of overstocking the fruit market:

It is often asked, " Will the fruit business not be averdone?" You might as well ask, "Will there ever be too much bread and meat produced? You would say " No," most emphatically. Bread and the meats are produced in every country. But how is it with the fruits we produce in California. For instance, thus is the place where the apricot grows to perfection. There are but few places in the world where the apriced grows at all, and even here in California it grows and does well only in certain localities. "And where is our market?" Everywhere in the civilized world. The demand increases faster than the supply for canned apri-It is a matter of fact that the apricot is one of, if not the best of fruits canned. It is snught after not only in our own country but in Europe. Large quantities are sent to England and to all parts of the world, and the cry comes for more, And for dried or evaporated apricots the demand is much more than can be produced for the next twenty years. The dried apricot can be kept or sent to market two, four or six months hence, and

pneed twenty car-loads of dried fruits. Last, but not least, comes the apple. It is one of the fruits that is next to bread and meat. It can he need in so many ways that it can not well he dispensed with. Everybody uses the apple in various ways—its a part of the living. It is like all fruits, healthful.

Dried apples are used by almost everyone, and evaporated apples command good prices in overy market. And good green apples in San Francisco worth \$1.25, wholeasle, all last summer and full. "Why is it"? One reason, there is a good demand. A great many thousand boxes are expurted to New Zealand, Australia, China, Japan and many other foreign countries. In the upper country apple orchards, in many locatines, have been neglected. The codiin moth have played sail have with the apple orchards. Oregon does not send us apples as in former years. The Oregon orchards have been neglected, and in many places, abandoned.

Some have been of the opinion that we will produce too many oranges and lemons. But since we have an outlet cast and lower freights we will find a good markel al paying prices. Our oranges come into market after the Florida oranges have been marketed. Henco there is no danger of pro-

ANTELOPIC VALLEY, TEHAMA COUNTY.

The Semi-weekly Tocsin, published at Red Bluff,
thus apeaks of the productive capacity of one of
its rulleys.

We do not believe that there is a richer agricultural section in the State than Antelops valley. The soil is the richest alluvisi, or loomy in character, and is capable of growing the choiceat tropicat productions. This rich soll is low enough to retain moisture, and yet it is high enough to be above the floods. Antelope creek, a living atream of sparkling mountain water, skirts the foot hills on the eastern border of the valley. This stream carries a largo body of water-a sufficient quantity to irrigate every foot of laud in the valley, if economically diverted. At present, this rich valley is almost entirely devoted to the cultivation of grain. We predict that this state of things will not last long. Antelope valley is entirely too rich and fraught with too many possibilities to grow grain, It is capable of growing crops that will return an hundred fold more than grain. It is capable of producing all kinds of berries, fruits, grapes or Any of these will pay an bundred fold more Indeed, we have held to the opinion then grein. for years, that the time will come when grain growing will be confined to the plains. The bottom land the river, is too valuable for grain production. There are thousands of acres bordering the river, belonging to such men as Bloseom, Rawson, Tyler, Mooney, Ward, and on the Dye and Chord grants, that is too valuable to grew grain. Time will prove this fact. But in addition to the rich alluvial soil of Antolope valley, it has irrigating facilities that presages a brighter future than that of any other section of the same extent known of in the State.

#### A RICH AGRICULTURAL SECTION.

The Yolo Mail, in speaking of Yolo county, says: It is capable of as great variety of crops as any section that can be found, from Siskiyon to San Diego. Our wealth consisted formerly of wheat, almost exclusively, until within the past few years we have found our lands more valuable for other purposes. Our health will compare with any part of the State. The last returns, of which we recollect, gave only one town in the State with a better health rate. We were second, Oakland being first. Yet the tide of immigration flows southward from San Francisco as regularly and us, constantly, as our



CONSERVATORY IN GOLDEN GATE PARK, SAN FRANCISCO.

the freight is nominal, compared to the freight on green fruits. And what is said about apricots can be said about other of our fruits-lile French prune and nectarine. The nectarine dues not do well only in portions of Cslifornia. It is good for eacning, and especially good for drying. The French prince is particularly good for drying, and always commands prices that pay the producer a good profit. Then the Bartlett pear is wanted to ship east to Chicago, St. Lonis and further east to New York, Philadelphia. Boston, and from these places to be distributed to almost every city and town in the United States. Then the demand for caused Bartlett pears is enormous, and the canneries want all the good Bartlett pears they can obtain, And the market for dried Bartlett pears is good. But other pears are wanted, for shipping East, at remnnerativo prices, Then certain varieties of peaches are wanted, and the canneries take all the good Early and Late Crawfords, the Lemon Cting, Orange Cling, White Heath Cling, Salway and a few other varioties of peaches. And still, notwith-atauding that there is such large quantities of peaches canned, the demand is not supplied. Then for dried peactes the price is good. Mr. Hixson, of San Francisco, was a month in Los Augeles and San Bernardino counties trying to get three car-loads of thred fruits, but at the could procure was 8,000 pounds. These two counties should have producing more oranges than can be sold at good s. And if we produce good lemons, there be a market for them also. As to producing too many raisins, that is out of the question. We have the world for a market, and nur raisins are wanted wherever known. There is, at all times, a good market for canned or dried fruits, and there is no question but that those who will devote their time and money to fruit-raising will realize greater profits than the farmer who produces barley, wheat, corn or other farm products, be better paid in every way, and where the best varieties are planted, three or four times the profit. And at the same the labor is lighter, pleasanter, and I might say, more elevating. I have scarcely glancest at the facts in the case, as regards fruit raising. As a matter of fact, the fruit husiness is only in its infancy yet in Callfoania, and the mest sanguine can realize what the fruit interests to California will be in ten, filteen or twenty years hence. There will be 100 car loads of green and dried fruits go east and to foreign countries to where there is one now. At some inture time I may give more facts and figures to prove beyond doubt that the fruit husiness can not be overdone.

crops.

The condition of the growing crops, according to the Sutter Farmer, is all that could be desired.

is too valuable. And Antelope valley land is rich enough to grow the most choice products of the It is only a question of time when men with experience will come and elbow the grain growers of Antelope valley out of the way. When that time comes it will be a blessing to Red Bluff, for then the land with bring forth its full productions, and ten families will be able to live handsomely where one is struggling now. We do not know how land rates in Antelope valley, but if the same rich land, with its irrigating facilities, was in Napa, Solano, or Sonoma countles, it would be worth from \$300 to \$500 per sere. If the land will not command these figures now, it is only because it is not farmed up to its highest capacity. In the countles named y aro in advance of us, and they cultivate the kind of creps best adapted to the soil. It is only a question of time, as before remarked, when a new class of farmors will settle in Antelope valley, for they will make il too valuable for the old fogles to atand the temptation. It is now settled almost exclusively by grain growers—tarmers who know nothing clae—and when the men come who know the value of frults, vegetables and berries, the grain growers will be crewded out. The old settlers will then learn it is more profitable to grow grain on land worth only \$35 per acre, than in Antelope valley, where land in worth \$300 per acre. Around Tohama, and he fact all the bottom land bordering

river flows to the buy. There can be but two reasons for this. One, and perhaps the principal reason is that we have no place for skilled labor here. We have never developed one portion of our system. We are like a mature man on one side, and on the other still an infant. Manufactories would call around man a desirable class of wealth creators, and enable us to retain our money at bone that we gather year by yoar, from our agriculture.

#### THE RAISIN CROP.

The consumption of raisins in the United States is Increasing rapidly. Peter Wyckoff, a large foreign fruit broker at No. 54 Broadway, New York, 8878;

"Valencia raisina aro an enormous erop this year; there is a heavy consumption in the United States, exceeding anything known heretofore. The importation has exceeded one million 28-pound hoxes; yet six hundred boxes of Malagas havo gone into consumption also."

As the California erop this year ranged between

As the California crop this year ranged between 100,000 and 150,000 boxes it hardly becomes a circumstance when compared with the 1,600,000 boxes imported from Europe. It will be many years before California produces an amount equal to greatent bome consumption.—Received Press.

VALUE OF FARM LANDS IN SAN LUIS OBISPO. Our renders have noticed the many sales of real estate in this county, reported in the Technon, during the past few months, and the pures part. The prices have quite asternshill the old settlers; and so great has been the inlyance that the avercantions and noretheeting have repeatedly said the top price is reached, and a reaction unit tollow. People of this class visited San Lins Obstack year or more ago, in search of hard to buy, had, thicking the rates higher than had been reported the year previous, were deterred from purchasing; but, coming again, and finding many dollars inhed to each acte. again went away, without becoming the owner of any land. This they will probably continue to do for years to come, meeting with the same surprises, going away with the same disampointments, and expressing the same regrets that they had not made their investments in time. Even here, where all should rejoice in the enhanced value of property, there are wise (?) men, who dutumsly shake their heads and say "prices are too high." Let us compare the prices paid for land in this county with those paid in other parts of the Shite and olsewhere. Here good wheat and dairy land in the coast region wells at from \$10 to \$25 an acro, and east of the Santa Lucia range from \$2.50 to \$10. In some small lots near town, or in the Arroyo Grande hottom, or otherwise favorably located, higher prices are asked. The profits of farming need not be mentioned in detail here, but it is enough to say that no more productive land exists in California. Here the farmers are prosperous, and becoming more wealthy every year. In Butte county, we see hirge furvis, at from \$80 to \$120 aw acre; in Alameth county trong \$100 to \$500, and seldom do farms in the northern counties sell for less than \$50 an acre. In the State of New York, farm land is held at apwards of \$100 an acro. most valuable are the dairy farms, and their product brings much loss than the product of the dairy farms of San Luis Obispo. The wheat yield of the New York tarms is not half as much per acto as yield in this county. The long winters of the East are much more damnging and expensive to the farmer than the dry season in this State. These are advantages in favor of our farming lands, and until our prices have equalled and exceeded the rates at which land is held in that State, they cannot be said to have reached their highest. In fact, would be a difficult matter to tell what is the real value of the productive soil of this county. There are farms that have produced \$100, and as high as \$140 per acre to their owners in the past year, and yet if \$80 an acre was asked for the land, people would open their eyes in amuzement. The axiom is that a thing is worth what it would cost to replace it. That us good wheat land can be got in Washington and Dakota Territories, is quite true, ut the tands of this county will produce what the ands of but few sections of the United States will. These lands cannot be replaced anywhere out of California in the United States. There are, therefore, none with which a ture comparison can be made. Here, with our unitvolled climate, the cerlainty of crops, the great ocean to secure forever cheap transportation, and the prospect of railroad connection with the great lines of the country at nn distant day, we may claim the most tavored locality of the most favored State in the Union, and our lamls worthy of the highest rates that dare be asked anywhere .- San Luis Obispo Tribune

#### SUBDIVISION OF LARGE RANCHES

We take the following, which is a movement in the right direction, from the Los Angeles Express; We are add that the San Joaquin rancho, near Testin City and Santa Aus, is now being auddivided and sold in small tracts. This ranch originally comprised 48,000 acres, and only a small purilon of it has been sold to actilers. The greater part of it is very fine land, and this movement will no doubt rapilly "double up" the population of that section of this county. It is in every way a desirable locality. The climate is excellent, the soil is rich sail adapted to the growth of vines and fruits, as well as for general farming purposes, It is also in close proximity to a small but practicable harbor, and the settlement of those lands will no doubt hasten the extension of the Southern Pacific Railroad to a atation several miles distant. if not to a connection with the California Southern near San Luis Rey. The movement will also basten the subdivision and location of other lands beyond, until the good work reaches the celebrated Sants Margarita runoli in San Diego county, Lands that are suitable for fillage are tecoming too valuable in Southern California for sheep pastures. We may therefore expect that the lineks and herds will, at no distant they, he driven to the mountains, and those that remain will be improved in their broads, held in smaller numbers and sustained on cultivated feed. Los Augeles, with her unrivaled climate and soll, will soon have

those of France, Germany or Spate, and her title of cow county" wilt be only a term of the past a mile-stone, as it were, to much how far the country has travoled on the lighway of advancement,

Subscribe for the BESOUROES OF CALIFORNIA.

ter vine-clad ldtbs and planes more iansons

The Independent, in comparing its leading town and county with other porlions of the

Many times persons residing at Stockton, or at other points in San Joaquin county, have left for other places in California, or neighboring States or Territories. In the amojority of instances, they have returned to "old San Jonnuin" again, perfectly satisfied to room no more. A gentleman who has lately returned from an extended trip throughout the coast and several middle contaites of the State says that no town that he visited, displays so lively a business aspectas Stocklon. It is the unline of men to be dissatisfied occasionally, and desire a change, but few, if any, who have left this section have bettered their condition in any particular. During the just three years, no place on the const can boust of more extensive or listing improvements, and these nuprovements have been made only when necessity demanded them. Stockton is the peer of other places in general intelligence and genend mornlity as well. Much is said in various sections, regarding climate and the health of the people. Statistics prove Stockton entitled to a place among the few leading cities, in point of health, in the whole world. Strong men, beautiful women, and armies of rosycheeked children will testify to the truth of this statement. Where is there it place of this size that can boost of more wealth, or more annufactories, or commerce? Men sometimes talk about money matters being "light," but the place is yet to be found where money matters are not "tight" to men of moderate means. There are, however, schlom cases of poverty requiring and from the charitable, or where relief is withheld, if needed. Taking everything into consideration, the residents of Stockton and the San Joaquin have no need to grumble, and, in fact, there is very little discontent here. The industrious and intelligent farming population realize fully the productiveness of the lands they cultivate, and are generally well-tn-do, many being wenthy. Generally the people are not quick to take up with outside veutures, and when delightfully-colored accounts of some blooming Eden in the dis tauce reach us, we gaze mound upon the broad extent of the San Jouquin, with ils beauty. natural advantages, and productiveness, count over our cattle, and friends, and children, and remain right here.

#### GRAPES AND RAISINS.

About twelve nitles from Auburn, in a westerly direction, there is a district of country that has proved to be very profife in the production of the taisin grape. Mr. W. Foster and Mr. F. Arndt bave for several years raised a very superior quality of grapes, and have been very successful in the manufacture of a superior quality of raisins, which they have been able to sell at very remunerate prices. During the last few years several others have engaged in the lusmess, and have been equally successful. The success of these already in the husiness appears to have created a distre in a number of others to make a venture in the same direction, and at time time that partion of the county is almostulive with prophy planting out grape vince is atmost in recent planting out grape vines. Mr. James Cartwright, who already has a smeal vineyard, is planting 30 acros in addition to what he has already got. The Job brothers are planting 40 acros, and Dr. Manson will phot to acros this apring, and contemplates planting 40 acres and apring, and contemplates planting 40 acres more the spring following. Mr. Charles Gladding, of Lincoln, as also engaged rather extensively in this business, heing now employed in planting 80 acres Most all of the vines now being planted by the above-vamed gentlemen are of the rutaln variety. Judging from what has already been done in that Judging from what has already been done in that part of Placer county, we feel warranted in saying that when the vincyards now being planted get fully to bearing, that that locality will be prized for its superior production of both grapes and raisina.—
Placer Herald,

#### A NEW KIND OF HARSEY.

The Reno thizette says: The Measury burley is a new variety, and takely to become popular, It is six-rowed, and was sout out by the Department of Agriculture four or five years ago. It originaled in Canada, and has long, heavy heads, which hung down with filling, but its straw is so strong that it does not full down, even on the richest land. It has been transed for multing, and promounced superior for that mirpose. In ripentug, it is a little later than the counton six-rowed, and and is easily distinguished from that, when growing, by a slightly rolldisk trage to the beard when the beads appear.

#### CALIFORNIA'S PUPULO.

We take the following extracts from the London Telegraph of December 26th, 1882)

At this moment Princips, Louise and her hus Marquis of Lorne, are doubtless accumulating muterials in Sun Francisco which would could them to render an answer to the question pro-pounded recently in his "Wanderings in a West-cra ban h" by V. Pembryis Vivion, M. P., "Will California, with all its surprising matural advantages, fail to become the highly and envired home of a contented and prosperous people. We can readily imagine the first inpulse of the illustrious guests pure on a visit to San Francisco will be to express astonishment that such a question should larve been put. From what they have seen of Chifornia, the Greenmar General of Canada and his regal consort may have been tempted to con chile that no limit exists upon earth, the prospects of a high are more taxonable. Any amount of dry and uninviting statistics might be collected, to prove what the mineral and agricultural wealth of California is. The State is more than large enough to make on empire in thelf, as its agricul-tural area exceeds that of the United Kingdom, or of the entire permisala of Italy. There are 10,000, 000 of acres within its contines a high me fit for the plory, and as much land again which presents the greatest facilities for stock-rusing and funt-grows In addition, there are mountain posture which, in years of moderate ramfall, are equilde of producing on amazing quantity of superior mest. Lavijong together her metallic production, her fruits and vines, her sheep, cattle, hovee, and ninks, California, with an acreage almost equal to that of France, and with a chante which, subject to the accident of rainfall, may be pronounced favorable, runst surely be destined to afford happy komes to twenty times as many human beings as the L,000,000 human beings with which it is non

#### COPPER IN CALAVERAS COUNTY.

Copper mining is one of the resources of Culaveras, and the San Jonquin and Sierra Nevada Narrow-Gauge Railroad will, auquestionably have the effect of stimulating effort in that field. Already signs of new life are visible in the copper mines of Campo Seco, the northern extremity of the Calaverns copper bell. An extensive copper formation along the west ern verge of the faothills was thoroughly explored more than twenty yerrs ugo, and uearly \$5,000,000 worth of ore has been taken out from the mines at Copperopolis alone. The ore extracted was of sufficient value to warrant transportation a distance of 35 miles by teams to tide-water, and its shipment to Wales, for reduction. There is still any quantity of ore, of grades inferior to that shipped years ago remaining, and which only awaits cheaper means of transportation to enable parties to handle it with profit, and, sooner or later, every pound of it will be removed.—Culavaras Chronicle.

#### THE WINE-GROWING REGION OF OHIO.

A very intelligent Culifornian, who lately visited the wine-growing portion of Ohio, in the vicinity of Saudusky, informs us that the grupes raised there find a very ready market at \$125 to \$150 per ton. Here the price is \$20 to \$30 per ton. This gentleman says that vines twenty years old there are not as large as twoyear-old vines in California. The thinness of the soil, too, impressed him. He says it is but eighteen inches to two feet deep, and below that depth there is a solid battom of limestone. The wine finds ready sale at \$12 to \$18 wease, at retnil. The point which most struck our informant was the care exercised in making the wine. Every detail was as closely attended to, us though, if even the smallest point were neglected, the wine would be an atter failure, . . S. F. Real Estate Circular,

#### A HAPIMA-I-HOWING THANK

The Sunty Am Herald, in speaking of its town, ays: In 1872 this town was leid out, a sharty or two being the extent of its improvements, and the town scarcely communiced to grow natil the year 1875, somo sevon yenra sinni. It lins lar ontstripped all the utd settled nonmunicies, established before Santo America over thought al, which, we think goes to show that we not only have the proper location for a large town, and are rapidly building in up, but that we have the country surremaining it, rich in agricultural and hortfenliaret production, thickly gupulated, and contributing to make this one of the largest, busiest, and mest prosperous towns in Southern California. The Santa Ann valley, liveleding the forms of Santa Ana, Grange, Tustliv, Westminstor, and Garden Grove, non-contains a population of at tenst 6,400. The numberful growth in gupulation and improvement, since this vidley first attracted notice, is sensething almost pharmonenal. It has few parallels,



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MAONIFICENT ORANGE AND RAISD Land; also adjacent tracts, at from \$35 b \$65 per acre, in tracts of 10 acres of 360 acres, or intermediate sizes.

This land has just been purchased at a low price of a large body, for cash, and subdivided into twelft tracts, and to effered for sale in tots to suit, at reason bio rates, to give a quick return on the investment. Part of the land, priced at from \$35 to \$37.50 pt

#### HEAVILY WOODED,

And, on account of the abilistance of the winter wald can be Irrigated from the Santa Ana River di and without the necessity of purchasing water sixty which can be had at \$11.15 per acre. The most successful Vineyardists trigate only to winter.

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#### A NEW CURRANT.

Are they grapes? No, certainly not; the picture shows a branch of a new variety of real current called "Fay's New proline," taking ita name from the originator, the late Lincoln Fay, of western New York, and the variety is a accelling of the Cherry and Victoria varieties, The new root was not given to the public until after he had cultivated it for eight or nine

#### FRUITS FOR CANNING.

Joseph Wallace, of Riverside, writes to the Rural Californian as follows:

In compliance with your request, I herewith hand you a list of what I have found to be the most satisfactory varieties of fruit for cauning. My experience has been confined chiefly to the peach and apricot. We are greatly confused here on varieties of apricots, in consequence of

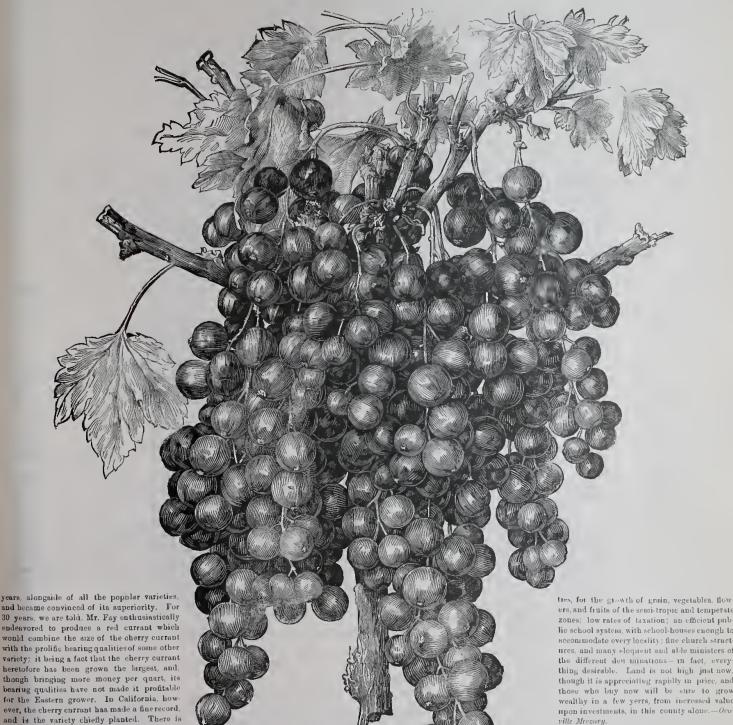
respect. And it matures at a time when most other varieties are out of season, filling the space between the earliest and the latest, and allowing a better choice of handling.

The Bartlett is the only pour I have found fit for canning. The past season I have used a large quantity of French, German, and Hunall of which are first-class. In fact, all of our excellent land, with aboudant irrigating facili-

it is at a useless expense of time and labor, and is, moreover, apt to be neglected.

#### WHERE TO FIND HOMES.

Immigrants arriving in Culifornia abould note the fact that Butte county possesses every advantage to those seeking to establish perma-



FAY'S PROLIFIC RED CURRANT,

It is certainly a magnificent fruit in size and heavy hearing. Its color is a rich red, and those who have grown it at the East say that it has a spicy flavor with much less acid than the cherry current. It has a space of naked stem between the upper berry and the attachment to the bush, which largely reduces the cost of picking, and prevents the crushing of upper herries in the work.

abundant testimony that Mr. Fay has originated a variety which is greatly appearor to the

cherry current at the East, and, no doubt,

Califoreia growers will be quick to give it a

The engraving, for which we are judeleted to C. M. Silva & Son, of New Castle, Cal., who are introducing the variety to California growers, was made by the Rural New Yorker from a branch grown in Chantenqua county, New York, and we are assured that it is an exact representation of the sample, It will be interesting to see to what size it will grow in Culfornia.—Raral Press.

name. Have found Royal, Large Early. Peach, and Hemskirk, the best varieties. My only objection to Moorpurk is its irregularity in ripening. All yellow penches are good for Витдеп Yellaw, Crawford's Late. camining. Smock's Late, and Salway are superior.
For several years the Lemon Cling has been

our trees not being, in many instances, true to a planes, prunes, and neutarines are in every way desirable, and of first quality. In planting peach trees, I think we should avoid using those varieties affected with curled leaf, as there are plenty of good varieties which are the city of San Francisco resemble the Venice free from this defect. Overlanding varieties of the Middle Ages—the great entrepot of the might also be rejected, as the trees called shy period between Europe and Asm heurers are sure to provamore satisfactory, any highly recommended. Its test during the past set them bearing sufficiently heavy. If a tree senson proved it to be all that is claimed for it. I consider it the bears too heavy, the fruit is small and worth lears too heavy, the fruit is small and worth lears too heavy, the fruit is young, parison yet made stribing.

ers, and fruits of the semi-tropic and temperate zones; low rates of taxation; an efficient publie school system, with school-houses enough to accommodate every locality; fine church structares, and many eloquent and able ministers of the different den minutions - in fact, everything desirable. Land is not high just now though it is appreciating rapidly in price, and those who buy now will be sure to grow wealthy in a few yerrs, from increased value npon investments, in this county alone .- Oro

#### ITS GEOGRAPHICAL POSITION.

The Commercial World, of this city, in reviewing the fature of the Pacific Coast, says:

In geographical position—that is to say, in its relation to other countries this coast is pe-culiarly fortunate. It stands like a half-way house on the shortest and most natural high way between the rich and semi-civilized nations of Eastern Asia, and the Concosian peoples occupying this country and Europe. possibilities of forming an indispensable canleeting link in the grand chain of commercial interchange are almost incoloniable, so perfeetly, in respect of notural solvantages, does the city of San Francisco resemble the Venice purison does not accel to be diluted upon, for

#### BIG HONANZAS.

# Floanciri Statement of Two llydraulic Mines.

The North Bloomfield and Million hydraullo mining companies, operating in this county, have made their fluencial statement for 1882. From them we gather these figures;

#### North Blommfield

Receipia-	δ0
Total recei, ts.,	65
Bonds redecimed, 106,\$100,000	OO.
Interest on hands	46
Experses of mining 153,714	113
Dividends	
Total dishursements\$431,789	52
Increase in each assets 4.2t1	13
Showing nel profit in working the North Bl-	oom

## field mine proper of \$235,331.32.

Milton.	
Receipls	
Total receipts\$429,228 88	3
Disbursements	1

Showing nel profit in working the Milton mines of \$180,877.80.

As these properties are among the leading bydraulic gravel mines in the State, the following tabular ststement, showing their operations for the past six years, will be of interest;

1877	819,036 794,518 665,711 637,682	Water Sales. \$ 11,754 9,664 9,091 12,295 24,233 4,325
Totals	Ner Profits. \$304,015	\$66,491 Dividenda. \$ 45,000 481,498
1859 1880 1881	402,821 204,075 325,227	422,640 105,396 223,324
ID 4 3-	CO DAN SEN	# + 500 659

These mines were closed for four mentles during the year 1881, which accounts for the small product for that year. At the beginning of 1870, the two companies were in debt over \$1,000,000. Since then this debt has been reduced to \$344,000. These payments and interest on this indebtedness chicfly account for the above discrepancy between profits and dividends .- Nevada City Transcript.

#### ARRIVAL OF GOVERNMENT CARP.

Private enterprise brought the carp to California and carp grovers, of whom there are now hundreds in the State, should never forget the perseverance and enterprise of the late Mr. Poppe, who, at a cost of great labor and personal sacrifice, a cceeded in bringing a half dozen fish through from Germany alive, while many perished on the way. From the baudful brought by Mr. Poppe most of our ponds are now stocked, although during the last two or three years the U. S. Fish Commissioners have sent onl a large uninher of fish for distribution.

The largest shipment of carp to this coast arrived on Sunday afternoon in the palace car of the United States Fish Commission, which left Washington with 19,000 field, morely carp. Besides the carp, there was a number of Japanese gold field. Consignments of the fish were distributed on the way onl, and many of the fish here at present will be sent to Oregon, Nevada and some of the Terri-tories. They are all in good order, and are con-tained in small tin buckets, holding each 20 fish. They were kept in their native water, which forms the carp propagating ponds at Washington, until Dalles, Texas, was reached, where the water was changed, and again at Deming, N. M. The car is in charge of G. II. II. Moore of the United States Fish Commission; James Causwell, of Scutland, a fish expert, who, on his return to Washington, will nan experi, who, on his return to Washington, will go as specialist in charge of shad-hatching to the London Fish Exhibition; F. L. Donnelly, another fish expert; D. W. Wood, Daniel Leech (corresponding secretary of the Smithsonian Institute), and Win. Dandridge as steward of the car, accompanied with Margaret Leech (corresponding to the Conference of panin Mr. Moore on his overland journey .- Pacific

#### OUR LARGIS HANCHISS.

About a dozen largo ranches are left in this county, and there appears to be a disposition, on the part of the owners, lo subdivide these, or such portions of them as are suitable for small places, to be cultivated. The demand fur tillable lands is auch, at the present time, as to offer a strong in-ducement to the owners of large tracts to "let go" of them. We are fold that a universent is now on fool for the subdivision of the San Juaquin ranch, which contains some 18,000 acres. It the in the southern purion of the county, and has all the advantages of soil and climate.—Less Angeles Express.

THE STATE UNIVERSITY.
In the report of President Read, of the Stane University for 1881-2, we find the following anggestions and recommendations, which are worthy of consideration:
The ment at the University are many and great.

plauned on a large endowmout. The University was plauned on a large, perhaps an ambitious, scale. Not content with the typical New England college in which coulout with the typical New Bugiand college in which
the ancient languages form his basis of the education
given, the founders of the University of California determined to offer at ence to the people of this new and
libriving State, all the clustional advantages that New
England has been law or more continues in developing.
The plan is good, but its very extent will prove its
greatest weakness, if it is not properly administered. greatest weakness, it it is not projectly animinasered. It is one thing to man efficiently a single college with a single course of study, varied only by electives within the course, but quite a different thing in man with qual efficiency an aggregation of colleges or a university. Our corps of instructors is larger than would be ity. Our corps of instructors is larger than would no necessary for a single college, either of tellers or of science, having even a larger attendance than the Uni-versity now bas, and our income is enough to pay such a curps of instructors more nearly adequate salaries than are now paid. But instead of one surb college we have many. Now, whatever doubts there may be regarding the wisdom of so extensive a pisu for a munity se young, we are committed to this broad policy, and it helicovis us to carry the work to a sucpolicy, and it behoovs us to carry the work to a suc-cessful bane. Indeed, there would seem to be special reasons for believing that there is in Chilfornia, if not an immediate need for a University on this broad basis, critainly a field for the development of such an enc. It would only be commensurate with our material re-sources and prosperity, and a fit supplanment to them, Indeed, I am of the opinion that, as a purely commer-cial suterprise, the ample endowment of the University would be a wise investment. We have only to add to our material advantages the best educational advan-tages to make the attractions of our State equal to those our material savantages to controlled to those of any State in the Union, in the eyes of people that we should most care to have settle smongus. No material advantages conspensate, in the ryes of a defratable population, for the loss of educational opportunities. And, as regards our collectional possibilities, we have In some respects advantages over old Eastern institu-tions, in that we are not hangered by narrowing trad-tions. Now the first and prime essential to the proper development of our University is a Faculty learned enough and large enough to give as good instruction and as ablo guidance as can be had in all the branches of study usually found in colleges of scionco and the liberal arts. To retain such able and learned men, and to secure others like them, good and stable salaries must be paid; salaries that compare tavorably with the earn-ings of successful men in the professions of law and medicine, and there must be withal a feeling of couldence in the stability and permanence of the institution; a feeling that whatever fluctuation of opinten there may be on matters of State policy or local interest, the University with always be the center of a common huterest, and the common object of a hearty and liberal

#### FRUIT LANDS.

The San Joaquin valley, at a not far distant day, will rival any other section of the State in the pro-duction of fruit. The soil and climate seem peculiarly adapted in many varieties. The peach, plum, apricol, prune, and fig thoutish, and hear extraordinarily. They are free from all kinds of pests and diseases that an retard production in other sections of the State. In Stanislans county but very little attent on his been paid to this very profitable busi-Many reasons are assigned. The country is comparatively new, and, on account of the low price of land, and the cheap manner in which li could be sown in grain, men did not wish to engage in a business attended by considerable care and expense. Again, it has been generally believed truits and vino had to be irrigated. Experiments leach that this is not necessary in the rich bottoms of the Shinislans, Tuchmine, and San Josquin rivers. Mr. Stephen Rodgers, an enterprising farmer, is pulting but an orchard and vinyard which, in a few years, will rivel any other to the State. Ho has already 14,000 young trees growing in a very healthy condition. He will add about 2,000 more this yest. He grows his own seedlings and does his own grafling, so he is certain to have the very best varieties and most healthy vines. He will this season pul out 10,000 vines. His experiments tend to show that grapps grow entirely too thrifty on the first bottom, but that the second would be beller. He measured one vine that grew 21 feet in one season. He intends to increase his mehard and vineyard until each covers 100 acres. More farmers, who have proper lands, should engage in this business. They would then have no fear of dry weather. All kinds of irnits bring a high price in this section of country, par-ticularly the apricot, peach and prame. They can not be produced with any satisfaction in but few sections of the Blate,—Stanish as County News.

#### A THIRIVING TOWN

Our limiting neighbur, Livermore, has a number of go-allest men, who are lifting the importance of ilial place slong at a lively rate. Brick blocks have been built, a bank will henpened in April, the streets Brick blocks havo have been graded and gravelled, a woolen fill is new being sermosty considered, and a fortune lies hidden in the thousands of series set out in grapes There was shipped by Wells, Parga & Cu, 's express, the past six months, \$85,811 24. May the City of the Philos continue to thought, and ever reign queen of Livernore valley,—Heynomis Journal.

#### FARMING LANDS IN COUNTY. CALAVERAS

Erom a lale issue of the Calaversa Chronicle, we lake

Erom a late issue of the Galaversa Chronicis, we have the fellowing, in reference to the farming development in a portion of title oil mining county:

Throughout the central purifor of the county, where placer mining was most extensively pursued in early alays, there is quite a large area of arable land. The inclinations of many of the rolling hills, or offshoots, of the Sierra Nevada meantains are an gradual as to permit the bushandman is IIII them willion difficulty, and the many cosy, well-shelt red little valleys hordering upon the mountain streams, are among the most inviting and productive lands in the State. Time and experiments will reveal the fact that these lands immediately below the snow belt are infinitely suspend in irrit culture more particularly the apple, post, and graps, than the valley. A great future undoubledly awaits that region in the development of the agricultural and hortfenttural capabilities of the situation. That fruits attain rare perfection on these mountain ierrares and in the snow-clad mountains, which nature has provided as a great reservoir to hold back abundance of wan runtil it is needed to alleviate the thirst of the arid seil, has aiready been demonstrated. The produce of the plates in the way of table grapes and wine, is greatly inferior in the way of tame grapes and while, to greatly interest to that of the higher lands. The quality of the pears produced on the red soil along the timestene range, ex-tending in a nertherly direction through the county, is very superior; and as for sound, fully-theeloped finely-developed, finely-davored applies, Californious will have to procure them from mountain orchards if they obtain a home product of the first quality at all.

The present industrial prospects of the county are brighter and of a more oncouraging character than they have been for many years hast. There has been during the past year an extraordinary inquiry for mountain lands. Contests over claims are minerous in both the United States Land Offices in Sarramento and Stockton United States Land Offices in Sarramento and Stockton. The northern portion of Calaversa is unitraced in the Sacramento Land District, Astonishing as it may appear, the poorest foothfil hand in the county—the district tammediately west of the arriferons to the extending from the Stanislans river, on the south, to the Calaveras river, on the north-is new sought for with suidity A large share of these lands can be brigsted from the canals constructed to convey water to the miners in early days. Twelve years ago there were about 48,000 acres of lands inclosed by fences; now there is four times that aron fenced, and many quatter-sections homestesded and pre-empted, the lines of which are only marked by the surveyor's stakes.

#### LARGE AND SMALL FARMS

The advantage of small farms, not only as conding to insure personal independence and national wealth, but to augment automal production and wealth, was very effectively illustrated by General Builer in his address at the recent International Dairy Fair in New York, by a comparison of the agricultural statistics of France with those of the United States. With a total area but little larger than that of the State of California, and much less then that of the State of Texas, but all divided up into small freehold properties, and every acre improved by careful culture, France, hesides her wine, cured fraits, raw silk, and other special producis, raises more wheat, barley, 130, cais and buckwheat than all tue United States, nearly as many horses and neat cattle, more sheep, and more than enc-thrif the quantity of swino. Such comparisons teach us the wisdom of the pulicy that in France, by the subdivision of the land, has made so large a proportion of her people freeholders and farmors.—Contra Custa thizette.

#### J. D. SPRECKELS & BROS.,

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This arlicle SHOULD NOT be classed with the so-called Augel ica Wines of this Coast, but is of a rich, rare flavor and full bud-ied, and NO CORDIAL can compare with it.

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Are Manufactured from the be selected grapes, grown upon soil peculiarly adapted to fine brandies, and is always relatied i privale stock until over fitty years of age, and none offerel for sale at a less age. Guarantee free from foreign spirits or add terations of any kind, and the identity of the brand always pre served, which is a guarantee for fine quality, flavor, and purity

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E. J. Baldwirk. Esq.—Plote sir: I have great pier in he measuring part that your Saida Antia Pare der Treituds la inde everlied in House, and that of many of Irietuds la inde everlied in House, favor and particularly produced in France and, I dentifer me any brandy produced in France and, I dentifer me and the method employed in returning the depth of the squal, of the same villings, can be found any though great pleasure in distributing the particular surprised that our Said Could house for the said in the total production.

(Signed.) 1 am, very linity, years, A. J. BOWIE, M.P.

For Rot or Cold Proclass the CRALOWI IRANDY control to equal of any other is stronound, it is not necessary to the control of the cold of any other is stronound to the cold of the cold o

For said by ait leading Bruggists, Liquor Mercles and Brst-class Grise is For Unstern and Foreign Markets, by threeting left

10. J. HALDWIN 37 Eithe Street The Ruldn to Helf

SAN FRANCISCO.

#### CALIFORNIA RELEVEN YEARS IN CARRIED RAISIN MAKING,

Some time ago Mr. G. G. Briggs, of Yolo county, wrote to the Eural New Yorker, giving his expo rience in raisin making up to that time. an interesting bistory we reproduce it for the benefit of our large list of readers who are or may bereafter engage in Ilile inclustry;

In 1868 I bought a vineyard of 40 scres. The vines were all of the California grape variety.

In the spring of 1869 I grafted them to Tokay and Muscat of Alexandria-sometimes called Muscatel

In 1872 I had more grapes than I could sell fresh in the market, and made a few raisins.

Iu 1873 I shipped most of the grapes East, and got nothing for them; but had to pay \$1,000 freight, and lost all my labor, boxes and grapes.

In 1874 I picked them for raisins. The 27th day of September the snn became dim and would hardly cast a shadow till the 25th of October, when it began to rain heavily and continued raining until all my raisine that were not under cover had become completely rotten. When the rain commenced 1 had taken up about 20,050 pounds of raisins, and those which were speiled by rain needed about two days of bright sunshine. 160,000 pounds of raisins in the rain.

In 1875 1 made about 160,0 pounds of raisins and planted 180 acres of vines.

In 1876 I made 190,000 pounds of raisius and planted 140 noies o'

In 1877 I made 300,000 pounds of raisine and planted 80 acres of

In 1978 I made 400,000 pounds of raisins and planted 20 a

In 1879 I made 640,000 pounds of raisins and planted 15 seres of vines.

In 1880 I made 800,000 pounds of raisius and planted 500 acres of viues.

In 1831 I made 1,000,000 ponnds of raising and intended to plant 75 acres of vince.

I shall then have over 1,000 acres in viner.

Our raisins were better last season than ever before. Two-fifths of them were first class.

I expect to make 150 boxes to the acre when my vines become full besters, which will be in about four years.

A hox of California raisins bolds We have 20 pounds, full weight. put them up in whole, half, quarquarter and eighth boxes. J. K. Armsby & Co., of Chicago, bave handle I them all for the past four years. Three years ago they sold them on commission, and they netted me two and a half cents pound. Two years ago they paid me \$1 10 a box. One year they paid me \$1 35 a box. Last year they psycd me \$1 75 a box for first class and \$1 40 for second class.

My entire crop of green fruit, dried fruit, almonds and raisins gold for about \$100,000 last season, and my expenses have about balanced it. I am satisfied that raisin making will pay California if it is economically managed. Our grapes are ready lo begin pickeng about August 23th. We bave trays to put

them on when we pick them. The tray is composed of 4 boards, 7 inches wide, 36 in-The tray is long and a half an incb thick, cleated together by nailing with clout nails a strip 3 inches wide, 28 inches long and a quarter of inch thick scross the ends of the four seven-in our seven-inch boards, making the tray 28x36 juches. We place a lray to a vine and pick the grapes and place them on it, and then elevate the north cud of the tray a little so as to get the full heat of the sun. Some vines have two trays of grapes on them and others even more, but the average is about one tray to a full-bearing vine. A tray holds about 25 pounds of grapes. We pick a first and second crop of grapes. ero la a difference of about three weeks in mms of the ripening of the two crops. Grapes pocked the 29th of Augnat will cure in about 15 days. Those picked the first of October will re-quire from 30 to 50 days. and course quire from 30 to 50 days, and some years we were chilged to use fire heat to dry them, or to finish drying them.

When the grapes are half-dried, we turn them over by placing an empty tray on them and turning them over, heaving them on the truy; then we take away like least they were on, place it on another and turn it. Two good men will turn from 3,000 to 5,000 they a day. When the raisine are made, we put them lute aweat boxes, which hold about 100

pounds. They are 28x36x7 inches. The raisins are ready to pack four days sfter placing in swest-hoxes. Our packers average about seven hoxes a day, four layers of five pounds in each box.

Our vineyards are well situated for railroad accommodathins. Our packing houses are close to switches, which the railroad company has put in tor our convenience. We can load a car with raisins in 30 minutes. We sell all our raisins f. o. raisins in 30 minutes. (free on board). We prune our vines to from to 20 buds, and they are no more than 10 inches from the ground. We find the finesi bunches on or near the ground.

#### REDWOOD LUMBER.

The Post-Intelligencer, of Seattle, W. T., bas some severe strictures on Prof. Sargent's article, recently published in the North American Review An extract from the article reads as follows:

"The belt of redwood forests along the Californis coast has always suffered severely at the banda of the lumbermen, and many of its finest and most accessible trees have already been removed. large amount of this valuable tumber is still stand--less, bowever, than has generally been supposed; and at the prescul rate of consumption, the commercial importance of this forest will have disappeared in a few years more."

of practical lumbermen, who have traveled through the redwood region, a poor guess would be of more value than the figures issued by the Government,— Northwestern Lumberman,

#### REAL ESTATE IN SOUTHERN CALL-FORNIA, A traveling correspondent of the Bulletin, of this

eity, furuishes that paper with the following notes:
The Pomona Land and Water Company offers

tracts of 40 acres to settlers, at from \$75 to per acre. The location is mldway between Riverside and Los Augeles. The village of Pomona contains 400 people, with public school, express and telegraph offices, churches, and railroad depot.

Etiwanda is the name of a colony that has made a fair stait. Over 1,400 acres are said to have been sold in small allotments, within a year, at a range of \$100@\$150 per sore. Concrete pipe, for irriga tion, bas been laid about seventeen miles in length, The electric light system is reported to have been successfully introduced. A \$6,000 hotel is just finished.

The lowe tract is claimed to have good facilities for raisin culture. It is located near the famous Cheamonga vluevard.

The San Jacinto Ranch is being subdivided to nit stock-raising, general farming, or fruit-grow-

SANTA ANA VALLEY AND ITS ADVAN TAGES

The following, which we take from the Santa Ana Herald, contains much information about a valuable section of the State;

The Sants Ana valley is one of the largest and most productive districts in the State of California. It is about aftoon miles long and twenty broad, extending from the footbills to the ocean. At least three-lom the of this area is suscriptible of cultivation, and the day is not distant (if we may judge by what has been accomplished), when every sere of this district will be brought under cultivation, and made to yield its proportion to swell the grand total of our hortlenlinisl and agricultural weatth. Already we have more than 11,000 acres of lrugable lands under cultivation; at least 6 000 acres embracing or chards and vineyards, and every year sees this ares is extended.

We exported last year 20,000 hoxes of choice oranges and 16,000 boxes of first-class raisins This year we expect to market 30,000 boxes of oranges and 20 000 boxes of raisins. Wool, grain, hops, potatoes and miscellaneous sgricultural products and live stock were exported from our valley last year, the weight of all exports, both by rail and sea, footing up the gratifying total of 21,600,000 pounds. In addition to the successful cultivation

of the orange, lemon, himb, banana, prune, the solt shell walunt and almoud, we can sad do raise the largist and fluest apples, pears, plums, tigs, etc. All vario-ties of grapes find a congenial bome in our valley, it having been conclusively demonstrated the soil relains the moisture longer, and the fruit is much and better flavored than most other sections. Every year new vincysrds are planted, and there is great profit in grape growing at last year's prices, \$20 per ton, a vir eyard four year old yielding at least eight tons to the acre. The raisin industry is destined to he of vast importance in our valley, our climate being so peculiarly adapted to the successful manu facture of raisins which will, la the course of time, drive the foreign article from the markels of the country. The demand for the product is steady at good figpres, and last year several carbonis shipped direct to Esstern markets from this county. much, briefly, for our productions.

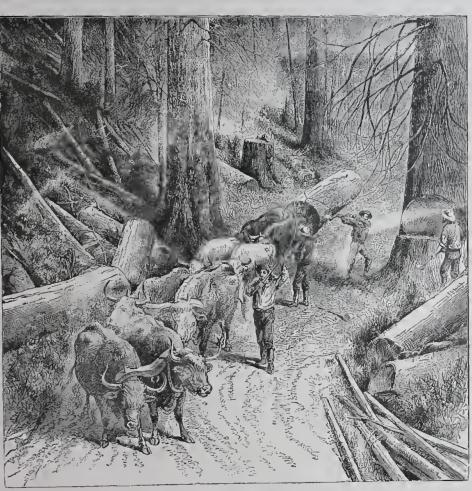
As to the climate of our valley it can not be excelled, even by the famed regions of France, Spain or Itaty. The average temperature for each month, during the push year, is as follows: January, 50 degs.; February, 50% degs.; April, 67 degs.; May, 67% degs.; June, 71 degs.; July, 73 degs.; August, 75% degs.; September, 73% degs.; Gotoher, 66'l degs.; November, 63 degs.; December, 56 degs. Average for the year, 651 degs. Average for the year, 65% cegs. In January we had 28 pleasant days; February, 26; March, 30; April, 28; May, 26; June, 28; July, 29; August, 29, September, 28; October, 30; November, 30; December, 28.

There is scarcely a day in the year that a gentle coast breeze does not blow, the valley border ing on the ocean, the town of Santa Ana being only nine Santa

miles from Newport, the landing-pines for our sleamer from San Francisco. Improved huds, according to location and improvements, are held at from \$300 to \$1,000 per acre; numproved lands, suitable for orchards and vineyards, (depending sison location and facilities for irrigation), from \$60 to \$150 per acre. These figures me not bigh, by any means, as compared with lands deveted to the same purposes in France, Spain, and Italy, or even in Florida, where \$3,000 an acre has been frequently paid for lands covered with orange orchards, and that, loo, in a country which has poor soil, a chimate not comparable to ours, sud subject to some of those awful visitatious of unitre, of which we made mention chewhere. To sum up, the above are some of the advacinges we offer home seekers in the Santa Ana valley.

#### MANUFACTURES.

The census of 1880 shows that the mimber of manufacturing establishments in the State, (gas excepted), was 5,885; the amount of capital in-vested in them, 871,243,783; the average number of bonds employed, metading children and youths, 13,693; total amount paid in wages during the your, \$21,065,195; value of the uniterials used, \$72,607,703; value of products, \$116,218,973. This is no had exhibit.



# THE LUMBER INDUSTRY-HAULING REDWOOD FROM THE FOREST,

This, the Washington Territory paper calls " the very error of the moon, so to speak." It says:
"In Humboldt county, California, the whole area

of the redwood forest has here mapped and platted. There is something like 500,000 scres of that timber in that county alone. Disinterested experis estimate 100,000 feet of lumber as an average, if not a small yield. At eighteen dollars per 1,000 fcot, the redwood of Humboldt county alone would just shout pay the present national debt. There are immense untouched bodies of redwood in Del Norte county-to the morth of Humboldt-iu Mendocino, Marin, and Santa Cruz counties to the south. We do not know woat the writer means for years. The oldest child begtoten by any ol the habes horn to day will not live to see the supply of relwood exhausted on this coast. A statement so wild as the above leaves little room for the reception of what else the writer has to say as trustwo thy material upon which to base an opinion as to extent and value of our forest growths. will not follow him further in this direction. He evidently is not at home in the woods." An interesting feature of these comments is the

estimate of the amount of redword standing in Dimboldt county. It is pinced at 50,000,000 feet, while the forestry bullbilln of California, under line directions of Prof. Sargent, puts it at 28,815,000,000 for the cutire State. According to the opinions of

Land 18 offered at from five to lbirty-five dollars per scre. the El Cajon valley there is a large stea of

land being staked off that will be offered at public auction within a week or two. Ontario, though one at the latest settlements

projected, already boasts of a good-sized, readable, weekly newspaper. A horticultural college and a railroad are among the promised features of the future.

The American colony offers land down to \$50 per acro, and will sell in tracts as small as five acres A sale of a tract of 40 acres near Colton is re-

ported at \$6,000. The Colton cannely is being enlarged. More fruit is expected to be handled the coming summer by this concern than ever before.

HOWELL MOUNTAIN VINEYARD.
Charles Krug, says the St. Relens Trues, is prepaining to get out 25 seves on his Howelt mountain vineyard, and ground is now being plowed for that purpose. The vines will be put out in a few weeks. At his lugrant ranch, towards Calbeings, soweral acres will be put out, varbous foreign varieties to be used. A ditch about ranch, towards Cartstoga, several arces we prove various foreign varieties to be used. A ditch about 1,000 feel tong has been constructed on this place. It is about eight feet wile and four feet hope, and carries to supplie waiter, which has inthette been a detriment to the place. With improved draitage, the vines will undoubteally thrive well.

#### THE RESOURCES OF CALIFORNIA.

JOHN P. H. WENTWORTH,

EDITOR AND PROPRIETOR.

## PUBLICATION OFFICE:

No. 320 Sansome St., Hatleck Building.

ISSUED MONTHLY

SAN FRANCISCO ..... MARCH, 1883

#### READ AND CIRCULATE.

When you have read this paper preserve it and fould it to your weighbors, or send it to some friend in the Eastern, Westernor Soutisets States, Canada, England and Candiscus Europe, who will value the Information It cantains, and might be likely to come or send intelligent, industrious farmers to settle in California.

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#### PETALUMA LAND AND REAL ESTATE AGENCY

The firm of Messrs, Geo. C. Young & Co., in Petaluma, does a general real estate business. They have facilities for furnishing to immigrants desirable small tracts of land, suitable for all kinds of Iruits, vines, etc. They will sell such lands as cheap as they can be purchased from the owners themselves. Title all cases perfect, and terms made easy. On application they will furnish printed lists with descriptions. They have the finest vegetable and grain lands to be found in the State

#### AN IMMENSE IRRIGATING CANAL.

Great attention is poid to irrigating lands in Eresno county. Numerous ditches take the waters of King's river for miles, over the dry plains. It is stated 'hat the latest canal projected is to be 27 miles long, and is to carry a flow equal to 1,500 enbic feet per second. total cost of the canal will be about \$90,000, It will enable very many land-owners to irrigate their otherwise comparatively valueless land, and will, hy enhancing the value of larms, add to the taxable valuation of the county some \$23,000,000.

#### STOCK-RAISING.

The farmers, all over California, are finding out that this is a paying business; and several are gradually leaving farming for stock-raising, The hills around many beautiful vallyes of our agricultural districts are well adapted for the

#### SILVER IN EL DORADO.

We learn that there has been a discovery of silver-bearing rack in the above named county. The local papers express the hellef that more thorough prospecting will develop ledges that and he profitably worked.

#### OUR MANUFACTURING INTERESTS.

The growth of our manufacturing industries, notwithstanding their great importance, appeurs to uttract less attention than almost nuv of our leading interests. It is highly probable that not more than a lew, umong our own citizens, are aware of the degree of development to which they have already attained, while even among those at a distance, who take an interest in the affairs of California, our claims as a manufacturing seat are hardly recognized. A tubular statement was recently published showing that the manufacturing establishments in the State employ over thirty thousand persons; and that, during the last year, the united value of their products amounted to over \$100,000,000. When we compute this statement of things with that which existed a few years ago, the extraordinary advance have made will be, at once, apparent. It is not exaggerating to say, that within the hriel period of five years, the number of manufactories has more than doubled, the number of laborers employed quadrupled, and the value ol the products manufactured shows a proportionate increase. Such results are indicative of the achievements we may reasonably look for in the future, with our increasing wealth. With a soil and climate snited to th production of the raw material lor nearly all the important staple industries, and a geographical position which naturally commands a trading field of colossal proportions, the prospects of our State's future greatness, as manufacturing center, are amply assured.

To those who still persist in looking on Calilornia as merely a mining camp, the lact must appear somewhat astonishing that the value of her munufactured products, in a single year, is nearly equal to the bullion yield ol the entire territory west of the Rocky Mountains. We can not refrain, however, from paying the mining interest, in this connection, a passing tribute. It is an industry of which we are all proud. Its products have been the chief means of stimulating and sustaining our other great productive resources. Its mission in this respect his not, we trust, reached its climan, and it is certain from the experience of the past, that is proportion as our mineral productions increase our agricultural and manufacturing interests will extend and flourish; till they reach a point at which their lurther progress will be independent of local con-

#### INCREASE IN VITICULTURE.

Governor Perkins, in his message to the Legislature, estimates the present value of 60, 000 acres in new vineyards at \$15,000,000, That is at the average rate of \$250 per acre. It is not too bigh a valuation. These new vineyards are almost exclusively planted in the hest foreign varieties of grapes, and, when seven years old, will yield for wine, at a modernte price, not less than \$60 an acre. The total acreage in vineyard on June 30th, 1881, was 75,141 acres; on June 30th, 1882, it had risen to 101,031 acres, nu increase of 25,890 neres, or over 34 per cent, in one year. No other country connected with the cultivation of the soil shows so large un increase.

Only about a decule ugo, the vine acrenge of California was insignificant, and viniculture was confined almost exclusively to the counties Los Angeles, Sonoma, Napa, Sacramente and San Joaquin. Now, we have, at least, 150,000 neres in vineyards, most of which has been planted in the last years. Viliculture is the staple industry in Los Angeles, Sonoma, Napa, ernmento, San Bernardino, Santa Barbara, El Dorado, Cidiverns, Tuolumue, Fresno, an l is rapidly increasing in Contra Casta, Souta Cruz, Monterey, Stanishus, Mariposa, Merced, Salano, Yolo, Tehama, Luke, Mendocino and Butte. It is confidently believed that the net returns from the vines already planted, four years hence, will be nearly \$8,000,000.

#### A NEW MINING SCHEME.

It is stated that a number of wealthy New Yorkers have organized a company, with a capital of \$20,000,000, to tunnel under the monutains near Oraville, Butte county, and for gravel mining. The head offices of the company are at Boffalo, New York. Ex-Congressman Ray V. Pierce is presider of the company, Janus De Graff is Trenserer, and N. A. Harris, of Oroville, is General Manager and SuperIntendent. There is helieved to be more gold under the Sterra Nevada mountains than was ever taken out of thum.

#### THE REVIVAL OF INDUSTRY IN THE MOUNTAIN COUNTIES.

Mining seems to have taken a new start throughout the entire mineral runge of the State. Capitalists are more and more giving their attention to this industry. In every mining district there seems to be a prevalent feeling of renewed confidence among the people, and a strong disposition munifested to tend mining operations. New quartz lodes, ol promising richness, have recently been disvarious localities in Calaverus. covered in Amador, Mariposa and other counties. The old blue gravel tunnel mines of Sierra are now yielding largely. The mines in Plumas. Shasta, Siskiyon and other old mining sections are reported to be paying very large dividends to their enterprising owners In San Bernurdino and other sections of Southern California developments are being constantly made in the recently discovered mining districts, The mining interests of the State are as yet only in their infancy.

The revival of industry in the mountain counties is not, by any means, confined to mining alone. The farming and fruit growing interests present equally strong evidences of renewed lile. Settlers are obtaining titles to the land, and, in the course of a few years, a fixed population, with all the comforts of permanent homes gathered around them, will take the places vacated by wandering miners. through the gold sections of the State, in the Sierras, there are innumerable basins, or small valleys, of rich agricultural land, which cun now he taken up by anyone who may wish to settle down and lound a home. Our State is now being penetrated by railroads in all directions, which are opening up new and productive sections of country. Towns, and even cities, have spring up within the last lew Towns, and even years very rapidly, in some sections. Furming lands and town property are rapidly appreciating all along the lines of these roads. And right here we wish to state, particularly, that the railroad has exerted a most powerful influence in raising California to a position which she now occupies, as a prosperous commercial State. If there is anything to which the people of California are indebted to more than unother, for the prosperity, general activity, and progress she now enjoys, it is her reilroad

#### ST. HELENA WINES.

The following wine notes are taken from the St. Helena Star, of recent dide:

The value of some of the choice kinds of rlaret grapes may be seen in the fact that Mr. Scheffler sold from his Edge Hill cellurs, in 1882, two thousand gallons of a blend of Mourvede and Carigwan, for 65 a gallon. This was '81 wine. The same wine had been sold, when six months' old, for 55 cents, and now, since New Years, when it is fifteen months' old, is held at 75 cents, and there is not enough to supply the demand at that. It is important to add that the purchasers are firm of the heaviest wine dealers in Los Augeles county. There is a moral in this somewhere, for our grape planters, if they can only find it.

It is a gratifying indication of the popularity of St. Helena wines that a prominent resident of Los Angeles has just sent to Mr. Schelller for 150 gallous for his own use. Fresuo man has also lately sent to the same cellar for a supply.

G O. Fountain has sold to Luchman & Jucobi, San Francisco, his crop of 24,000 gallone of wine, and is now shipping it.

Louis Sunder is banling his wing to Beriuger Brothers, to whom he sold his crop of 20,-000 enlloss.

#### EMPLOYMENT FOR MIGLIONS.

California, in the culture of grapes, sugar, tobacco, raisins, olives, Irnit, thex, hops, in manufactories, in mines, in commerce, in lorests, in ship-building, our furnish employment for 10,000,000 of people, unil our maintain them in comfort, if they will labor. There is, says a writer, who is well informed on the subject, a twenty or forty-nere piece of hand for every industrious workingtons that has enterprise to come from the Eastern States or Enrope to occupy it, and support, in comfact and independence, for everyone that is willing

Californium should feel a pride in a publication which is doing so much for the State as this journal is, and soud it to their friends

#### THIRTY THOUSAND VISITORS.

A writer in the Oukland Tribune, in speaking of the 30,000 people soon to visit this State, in one hody, says:

From all parts of the United States there Is now sufficiently definite information to warrant the assertion that at least 15,000 Knights and half as many ladies will visit Cslifornia for the triennial. The strain upon milroad accommodations will be so great that the transit must begin by the first of June and centings till August 12th, when the Grand Encampment meets. Every available sleeping car on the continent has already been cugaged. Some of the Pullman palace curs have been secured, to he side tracked and used by their occupants during their stay. Fifty dollars a day each is reported as the price. Box cars are to be fitted up to answer, when all the more combortable ones are exhausted. The next great effort will be to find sleeping accommodations in San Francisco, Oakland, and other places within reach of the metropolis. A generous hospitality will be demanded of every household have ing a spare bed and an extra place of his hourd. Thousands of people who want to see California before they die, will take advantage of the \$75 passage from the Missouri river to San Francisco. But they must be Knights Templar; so the Communderies of the East are working faithfully to qualify Royal Archmasons to participate in the great transit. In a little time the Committee will have the exact figures, but enough is now known to warrant the assertion that 25,000 or 30,000 people will he here to see us and test our hospitality. And such people, too; the very select of the worthy, if not the wealthy, of the land-pecple it will be an honor and a pleasure to meet and to know and entertain. For such we have nn doubt of a generous reception by all on citizens. The result of such a visit will be the accession of hundreds and thousands of these sight-seers to the permanent population of the coast. Our advantages must be known to he appreciated. The visit will make them

#### CENSUS STATISTICS.

California is now the loremost sheep-breeding State in the Union. The census statistics for 1880 show a grand total of 42,381,289 sheep in all the States and Territories, Culifornie's share being 4,152 349, or nearly one-tepth. The next highest State is Ohio, with 3,902,000. New Mexico had 2,088,832, and Michigan 2,189,389. The Pacific States and Terratories stand credited as follows: California, 4,152,-349, Oregon, 1,083,162; Washington, 291,883; Nevada, 133,695; Idaho, 27,326; Colorado, 746 422; Arizona, 76,552; total, 6,512,380.

#### SAN FERNANDO OIL DISTRICT.

O. N. Felton usenres the Los Angeles Express that the oil prospects in the above district, leented in Los Angeles county, are very encournging. His company expects to double the quantity of oil now taken, in a few months. The present yield of the wells is 400 barrels per day. It is estimated that it would require nt least a yield of 1,500 barrels to supply the oil consumption of the Pacific Coast, and Mr Felton's company alone expects to reach this mmount in the course of a few years.

#### RESERVOIRS FOR IRRIGATION.

We learn, from the Los Angeles papers, that some large capitalists have under consideration the matter of constructing vast reservoirs, on the upper waters of the strenms used far irtigation in that county, by daming canyons through which they find their way to the plains. If this is done, it is believed that the water can be so saved and utilized, that there will be enough to irrigate all the arable land 10 that county.

#### CHANCES FOR EMPLOYMENT

It is stated that in our immense tumber for sts thousands of lambermen, charcoal burners. wood-chappers, etc., can find employment We honestly believe that Onlifornin to-day of fords more advantages to all classes of peop the rich and the poor, then may other State it the Union. A man, with a small sum of money, can live here cheaper and better, with has work, where he cultivates the thun in any other phose that we know al-

Subscribe for the RESOURCES OF DALIFOUNIA

# WHAT STALL WE DO WITH OUR HOYST

[Written for THE RESOURCES OF CALIFORNIA, by James C. Kemp.]

This question has been asked over and over again, for the past ten years, from one end of the State to the other.

Article upon article has been written upon the subject, but all to no purpose, and in the meantime the aggregate of hoys has augmented at a rapid rate, while enforced idleness has steadily swollen the ranks that are continually murching on, in the direction of the County Jail, Industrial School, House of Correction, and each of the State prisons.

The fathers and mothers of California have been favored by the Great Creator, in a manner that has no precedent in history.

Never before did any people have such grand opportunities, or be the possessors of so magnificent a heritage.

It has broome a settled, foregone conclusion, that this State is to be one of the most populous and opulent that has ever been known; while the city of San Francisco will eventually become the grent mouetary and commercial centre of the world; with the civilizations of America and Europe at her back, and that of Australia and the two nations of Japan and China on her front, from which will radiate, in every direction, the most valuable productions of intellectual, agricultural and mechanical labor.

There is room enough here for every hoy to have a farm, adapted to the culture of the great specialtics, silk culture, etc., which can not be excelled in any other region, and of which California could have almost an absolute monopoly.

Every intelligent being born into this world has imperative obligations to perform. We were not placed here to consult our own particular tastes and desires, but on the contrary, to perform stern duties, whatever they may be, each in his own day and generation.

Our uncestors thoroughly nulerstood this, when for the sake of a mighty principle, they gave up every comfort of country, home and family, crossed the trackless ocean and, amid snow and ice, landed on Plymonth Rock in the dead of wirter, with but one Friend in all the universe, and nought but the leaden sky above their heads.

The decendants of that immortal band understoed it equally as well, when an hundred and forty-six years later they faced the best troops of Europe, and freely poured unt the most precious blood that ever flowed in haman veins, that their decendants might enjoy the great principles of civil liberty and live under the hest form of human government ever devised by the mind of man.

Since then, an hundred years have come and gone, and we of California are surronneded by every comfort and luxnry that the most fastidions could desire. The fairest land God ever made. An atmosphere as pure and hright as the gems of Golconda. A climate, the most superh that ever was, and a soil, the like of which was never known.

Besides all these priceless blessings, we have a complete monopoly, as I hefore stated, of certain products, which the rest of the world can not do without, the demand in fact heing so great that with all our resources streeched to the numest tenison, we shall still be numble to wholly supply it.

And yet, under such circumstances as these, the fathers and mothers of California helplessly sit down, and, in tones of the most abject despondency, cry out, What shall we do with our hoys?

Is not this unparisonable, base lugratitude? And are we not proving ourselves fearfully recreant to the sacred trust bequeathed, and noble example set us by the Pilgrim Fathers, mothers, and heroes of the Revolution, whose decendants we claim to be?

I would ask the parents of the boys in California, what the hest soil in all the world is for if not to be cultivated. What too does 350 days of each year, that a man can work in his shirt sleeves, and 200 of successive sun, while the soil.

Has not the Creator plainly said to the people of this State, I have given you for a heritage the Eden of the world. As in the commencement, I placed your first parents in Paradiss, so now have I given you California, that you sail yours might become the most prosperous people that over existed.

How have the parents of this State replied to this?

They have neglected to till the magnificent soil, and are, in most rases, so partial to city life, that they are unwilling to make the imperative sacrifice, for the sake of their boys, thus permitting them to grow up in idleness, while the sensible immigrant from other climes comes here, acquires the land, and with it all the goldrn opportunities and heretofore unheard-of advantages.

This insane devotion to city life, and blind worship of dress and style, is the principal curse of modern civilization; and, on account of it, our hoys and girls are yearly becoming more and more useless, and, in another grucration, their ruiu will be complete.

I know this is strong language, but where, I would ask, is the mun or woman who does not feel, in their beart of hearts, that it is strict, honest truth.

Have we not degenerated fearfully since 1620, and is it not time to cut loose from this terrible bouldage, once more assert our manhood, and prove true to our God, our ancestors, our children, and ourselves?

There is no necessity for the parents of Culifornia to ask the question "what shall we do with our boys?" People East might do it, but we—of this State—"never." Teach your son that a good trade is a thing of the past, all trades being divided and sub-divided, much of the work being done by machinery, and even at best is simply the ability to do a thing, provided some one else will hire him to do it, placing him always in the position of an applicant, when it should be his aim to become a genuine king.

That everyone of the learned professions are crowded to suffication, that a clerkship is not only the worst ship a man ever embarked on hut, as husiness is now conducted, actually one of the hardest positions in the community. Teach him further that, in twenty years, this State will be divided into innumerable orchards and vineyards, each of which will be an earthly Paradise. That the owners of them will be the most independent class that ever lived, and finally, that the one sole arm and purpose of a California boy should be to become a viticulturist and fruit-raiser.

I consider it the sacred daty of every parent in this State, who has a boy, to make any and every sacrifice, in order that he should learn and follow those pursuits, just as if there was actually nothing else whatever for him to do.

My reason for this is that there can possibly he no other business so good for him, he, under these most fortunate circumstances, becoming a king and monopolist by Divine Right.

In order to carry out this idea, the parents of the hoy, or boys, must be willing, if necessary, to give up city life, and go live upon a piece of land, and put up with any and every sort of inconvenience, until their trees and vines hare, herome old enough to give them a support. I consider that no parent has a right to consult his or her taste on the matter, and say they can not leave these comforts, and go and isolute themselves upon a farm.

Duty to their children demands it, and if not equal to the occasion, they are naworthy the names of Americans. This is right where the shoe pinches, and is the one great obstacle above all others.

"Why, I never beard of such a thing," cries one lady, "I had sooner live on a single ment a day in the city than the fat of the land on a No sir, I would rot before I would do farm. And so the boys must hang around, work in pickle factories, be kicked about from pillar to post, and finally grow up miserable wretched heiugs; and reader, just as sure as I am writing these lines. I have given you the true cause of much of the enforced illeness among the youths of this and other Culifornian rities, This is what's the matter, the fault lying wholly with the parents themselves, the words fushion and style being at the bottom of it, God has given us the incomparable soil, unaproachable climate, magnificent advantages, and has finally crowned all with the exclusive monepoly of the products; but because He has not added the sidewalks of Kenrny and Murkot streets, and general pleasures of city life, all are spurned; and the sensible immigrant from other climes cautiones to come, and will continne, until not one solitary acre of this fair heritage shall remain unoccupied.

bertage sum remain tabecapted. "what what shall we do with our boys?" will be answered yield in the future.

emphatically, they and their children having become the servants and drudges of the owners of the soit.

Style and fushion are very proper for those who have umpte means to live up to their requirements,

For a rich woman to pay forty dollars for a bonnet is just what is needed to belp the mil-liner along; but, to the must of the writer, tor a family of small mrans, who live off the wages of the father, a good cow would be a wiser and better investment; and the five or six handred dollars that has been saved up to buy the wife a sealskin sacque, as a Christians present, would parebase and plant ten acres of good fruit land, and start at least one hoy on the highroad to princely wealth.

The writer very respectfully submits the foregoing to the perusal and consideration of the readers of The Resources, fully believing that it is one solution, at all events, of the great question, "What Shall we do with Our Boys?"

#### OUR SHIPPING INTERESTS.

There is one pleasing fact connected with the shipping interests of Humbohlt county, and that is that a large portion of the vessels constructed at the yards on our buy are owned by enterprising men who have their homes there, Men who, with limited rapital at their commund, are giving considerable thought to this matter, and are manifesting a willingness to invest in that direction. At the present time, no less than some 25 vessels, large and small, are employed in carrying away the products of this county. This number of vessels represents an amount of capital close on to \$1,000,000, and may, perhaps, exceed that sum. A large portion of this money belongs to non-residents, muny of whom reside in San Francisco. The resources of the county are extensive and varied, and each year adds largely to the amount of products to be shipped away, not only to markets in our own State, but to those in foreign lands. Capital invested in providing the means by which these products shall be speedily conveyed to market cannot fail to bring to its owner, or owners, good interest on the imounts invested. This being the case, why should not our own citizens own und control most of the vessels engaged in carrying freight from Humholdt county? They should own these vessels, and in small shares, being well distributed among the people. This would result in having the property taxed here, adding greatly to the prosperity and welfare of the county. Sau Francisco now receives quite a handsome sum from taxes on the vessels engaged in the carrying trade of this county, all of which can and will be saved to our own county when its citizens build and own these vessels. Enreka has become a port of cutry, it is to be honed the enrollment list will swell up and compare favorably with Eastern towns of like importance .- Humboldt Telephone

#### THE CALICO MINES.

In its last issue, the Print, published in the town of Calico, San Bernardino county, says

The outlook of our mines, at present, is very All the principal mines are being worked, and a good many claims are being prospected, with good results. As work progresses, the forces of men employed in mines are increased, and very few idlers can be seen on the streets. It is the intention of some of the companies, if the amount of ore now taken out yields us well as they expect, to build mills for their own use, and we have every reason to expect that there will by at least half a dozen mills in operation in this vicinity this summer. The richness of the ore in some of the mines is wonderful. Large quantities of ore that will average hundreds of dollars to the ton are ready for the Oriental will, when it begins operations. Sherman's will is running day and night, on an amount of bullion quite satisfactory to its owners. A number of hourding and lodging honses have been put up at the principal mines, good roads have been opened to most of them, a great many other improvements have been made, and the mines are being put in good working order, with the expretation of doing a large amount of work this summer.

#### QUARTZ MINING.

Quartz mining, in Nevada, Batte, Sierra, and other monutain countries, is notive, and the prespects are generally lavorable for a good yield in the future.

#### ANGORA GOATS

H. T. Hatch, whose ranch is north of Willite, is the owner of quite a large band of graded Angora goats, ranging in grade from half to fifteen sixteenths, and is more than pleased with his venture. More goats can he kept on the same range than sheep, and the expense of taking care of them is less, while earing and marketing come but once a year The demand for mehair is constantly increasing in this country, promising to far exceed the supply of the world in a very few years, and the price puid is always sufficient to pay a good, round sam on the suvestment. In this connection, it will not be amiss to present the following extract, taken from the Breeders' Unselle, relative to the growing demand for mohair:

"During a recent walk through the largest woolen mill in the neighborhood of Philadelphia, the writer was surprised to find a large pile of bales filled with mobair. Upon inquiry, the fact was elicited that already considerable unchinery is running on fabrics composed of mohair, the majority of which is imported. This fact is especially interesting to those who have heard of the absence of H market for mobair quoted as an argument against the profitable culture of Angera goats in the United States. This hair, though going into several other fabrics, is principally employed in the manufacture of plushes, for covering the sents of railroad cars-an industry just now attempted in this country. The proprietor of the mill above referred to, admitted the superiority of the American mobair, and emphasized his conclusions by comparing samples of foreign and domestic product. With a fuir market for their tleeces—as reliable as that of wool-within ready reach, there seems uo reason why the culture of Angora goats should not take its place beside that of the bitherto more popular farm animals. In fact, in many localities, goats can be handled without at all interfering with other stock-as they prefer those billy and arid localities, inaccessible to most other animals. The time for sneering at efforts in the direction of introducing the Angora goat in the United States seems to have gone by forever."-Mendacina Disputch.

#### SUMMER IN THE COUNTRY.

The South Pacific Coast Railroad Company, (Narrow Gange), has issued a very neat descriptive "List of Motels, Boarding-Houses, and Excursion Grounds, with nances and Post Office addresses Proportors," located along the line of its rand, including San Jose and Santa Craz. These lists are for free distribution, and we call the attention of our readers, and of committees, to the superior olvantages of this rotte, for a summer boliday The Santa Cruz mountains are unrivalled for campors and health-seekers. The Big Tree Grove and Santa Pruz are glarious places for excursionats. Schutzen Park, under the new management of Capt. Cantus, and Newark Park, by Julius Wildermuth, are perfect pienic grounds. lists, with folders, descriptive of the road, time tables, rates of fares, atc., can be obtained at all of at 222 Montg street, and at Passenger Station, foot of Market street, south side, San Francisco. All offices are connected by telegraph and express. For special exempts and contracts, upply to R. M. Gurrutt, General Freight and Ticket Agent, at the General Office.

#### A HIGHLY-FAVORED COUNTY.

The Santa Cruz Sentiael thus speaks of itcounty: "We have grand seeners, several rivers, a beautiful buy, the biggest oceau in the world, great forests, swelling vales, high mountains, hills purple with clustering grapes, fields golden with ripening grain, thickets full of whirring birds and bounding sleer, roads running in every direction, a hundred places of interest, creeks alive with speeklyd heauties, an arm of the ocean inhabited by the mousters of the deep, and a city that Adam and Eve wouldenter, were it possible for them again to be driven from the garden of Eden."

#### TIMBER LANDS.

The correspondent of the Maysville Appeal says: There is a rush, among capitalists, to seem timber lands. From Membedae ie the Oregon line every newspaper is literally diled with "Timber Land Natices." It is a wonder that these valuable lands have not been taken before this late day. The sooner the Government land in the State, whether timber, farming or grazing, passes under private ownership, the hetter it will be for all concerned. They will be improved and begin to pay taxes for the support of the State.

#### BEST GRAPES FOR WINE.

At the last meeting of the Santa Clara County Vittentural Society, the discussion on "the best varieties of grapes for wine" was opened by L. D. Combe, with the following paper, which will be read with interest by all vineyardists:

It is not my purpose to give here extended re-marks upon the different desirable varieties of grapes, but only to point out those that have proved e especially adapted to the soil and climate of portions of this valley that are known to produce a high class of wice. First, foremost among those, I would name the two that are almost exclusively used in the production of Burgundy, the Phinssaid and the Petit Pinot. As far as tried, their yield has proved satisfactory, and the quality of the sime unsurpassed; seemd, for the production of the best Bordeaux wine, we have the Cabornet, which, as we know, forms the basis of the famous Medes wine. It seems to have a preference for a soil rather moist. The Chance Noir produces an excellent wlue, different from the two first named. It grows well here, but, like many other valuable varieties is rather a shy bearer. For the Boussilon wice we have the Mataro, which brings good crops in any soil, the Grenache, inclined to produce much wood, prefers, consequently, the light soil, the Charbonnean doing well almost anywhere. The two varieties last meutioned would make an excellent wine, if mixed in the vats. For white wine there are four distinct varieties, each one producing an entirely different type of wine. The Sanrignoune and Colombar, of the same family, give us the true San-The different varieties of Rieslings produce our imilation of Rhins wines. The Folls Blanche is essentially a brandy grape, but its wino may used in blending with either white or red. Chasselas, of which a number of varieties raised, will give, when treated propesly, a fair quality of wine. All these varieties are known to do remarkably well in this valley; the Reisling re-quiring long pruning, and the Chasselas doing much better when grafted on more vigorous slock. In conclusion, I would anggest that parties who wish to plant of the most varieties, and are unable to procure cutlings at present, shund set out some the thrifty growers, like the Mission, Roso de Perue, and Verdal, for stocks, and in two or three years grafts may be obtained, and thus much valu able time is gained in the establishment of volumble As a proof that much may be done in one season, in the way of grafting, and almost wholly with unskilled labor, we will state that Mr. Briogs, of Davisrillo, once grafted 28,000 vines, in one season, at Wintersrille, with very good success - San Jose Mercury.

#### A GOOD CHANCE TO INVEST.

We have often referred to the fact that it would some of our Hollister capitalists to creet a unmber of cheap but good dwelling houses tur rent, and we do so again in the hope that some of our moneyed men will take advantage of the opportunity, not only to make a profitable investment for himself, but to convey a ambitantial benefit to a large number of families who are now occupying inferior, uncomfortable and unhealthy honses, simply because they can not precure any others. For over two years there has been a dearth of dwelling-houses in this town; at the present time the demand greatly exceeds the supply, and where we find one dwelling for rent we find half a dozen families who want it, in ouler to get away from the interable little coops in which they are compelled to live, on account of the searity of decent houses. There are many families here also are either too poor, or for some other reason, do not desire to buy property and build divellings of not desire to my properly and mind divernings of their own, but who are willing and able to pay a good rental for comfurtable, well-built houses. Hence we say that the man who puts up in this town a small number of neat, well-appointed tenements, will have no trouble to find tenruls, and will receive a bandsome return for his investment. San Benito Advance.

#### GREENVILLE MINING DISTRICT, PLU-MAS COUNTY.

The Greenville Bull-tin, of Jun. 10th, three speaks of some of the mines in that district: Ou Monlay veuring a clean-up was made at the Greecent initio after a four days' run with four stamps, and the result was \$4,000 north of bullion. The ore body opens out better a very day. The Taybur-Phumas mill be almost completed; fittle more than laying the water pipe remains to be done. The Green Mountain utills are both running studity, and have been yielding better during the past week or two. The three mines are located in the form of a triangle, the Greecent being down on the flat at the foot of the mountain, the Taybur-Phumas about 250 yards northwest and the Green Mountain. The main hole is consequently tapped at a greater dopth in the Greecent mine than in either of the others, and it it his uniform exactones there that the ories, and it it the uniform exactones there that the ories are included as depth are assembled that the greatest workings of the Green Mountain at their greatest workings of the Green Mountain at their greatest depth are several hundred feet above even the aurface ground of the Greenent mine.

#### BHIGHT PROSPECTS AHEAD FOR SO-LANG COUNTY.

There is no doubt that Northern Solano is entering into an era of prosperity that has nover before been equalled to her history. It is but the legitimaio result of the natural elements of strongth and wealth that sooner or later make their influence felt. She is rich in hope, and big with prom-Nature has showered advantages upon her with a lavish hand, and she is rapidly settling up with a class of people that have the brain, the nerve and the capital to develop her almost inexhaustible resources. Coondered from a saultary standpoint, she has no equal in the State, as the State Board of Health conclusively shows. As a vheal-producing section she stands at the head, She setule the earliest and best varieties of fruit and vegetables to the market. Her wine grapes are universally proconneed the best that are sent to the San Francisco market. She is the very heart of a rich belt extending through Solano and Yolo, produces the very hest raisios now cured in California. Indeed, in this particular, she claims pre-emineuco over all other viticullural counties. She is soon to be provided with a system of irrigation that will obviate all dangers that arise from a drouth. The water company recently organized possesses the material for good and effective work. will doubtless run a ditch along the ridge just east of Dixon and all that vast tract of land lylog between its and the Sacramento river can easily be furnished with an abundance of water. Another ditch will also be run along the hank of the dry slough that runs through the raoches of Mesers. Summers, Merryfield, McCuoe, and Garnett, and this is of such an elevation that water can easily be distributed over the entire belt lying between us and the footbills. This will render every foot of land in this victoity, available for grain, fruit, vege tables or for grazing purpose, as it has already been fully demonstrated that by means of irrigation, even adobe lands can be made to produce large crops of alfalfa, - Dizon Tribune.

#### CANNERIES.

The Stockton Independent says: The owner of a patent canning apparatus for putting up fruit and vegetablea, has been in Stockton, trying to interest people in the establishment of a cannery bere, Wherever canneries have been established in this State, they have been successful. Canning is the only profitable way in which fruit and vegetables can be preserved in large quantities. It is a staple industry, and can be made to pay wherever there are large quantities of fruit. There is no doubt but that a canning enterprise would pay here if undertaken and managed on business principles.

#### MINING MATTERS.

There is the expectation that there will be more activity in quartz mining in this district line com-Ing summer than there was reason to expect a few mouths ago. Some of the prospecting mines which have been suspended during the winter months will resume operations while there are rumors, tur which there is some basis, of one or more old mines slarting up. There are also several bonding operations of good properties in course of negons, lion, with the view of putting them into new and stronger hands, so that it may be said that there is no idleness or instiference as to the opening or development of the quartz resources of the dis-There is no field in all Calitarnia that offers more encouragement for legitimate quartz mining than this. This character of mining has been a successful business hero for more than 30 years, during which time many millions of dollars have been extracted, and yet there are many veins that have only been superfleially worked—to the depth of one to 300 feet. There is a wealth in the quark veins of the district that justifies the ontlay of a large capital and the efforts and labor of unterprising men. Although much work has been done in the way of exploration, it is merely the beginning of what is yet to be accomplished in this old and reliable gold-bearing region .- Grass l'alley Union,

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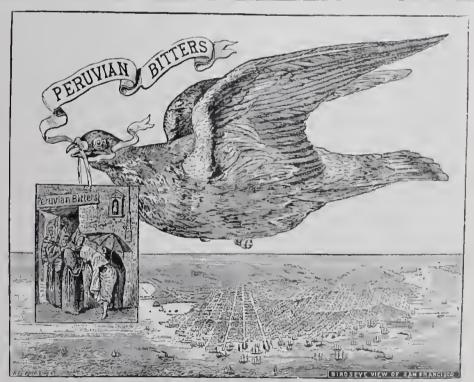
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#### SAN GABICIEL MISSION

In Harper's Magazine, we find the following reference to San Gabriel Mission:

In the plain just under the edge of the mountains, lies the old village and old mission church of San Oabriel. The mission dates from 1761. was founded, like all other missions of Cullfornia, by friars sent out from the college of San Fernando in life city of Mexico. I well recollected the eccle-alastical buildings of this college of San Fernando. They stand yet on the principal street which was the scens of Cortex's disastrons retreat from the city, and are marked, I believe, by an inscription commemorating the sile of the famoua Leup of Alvarado. The buildings founded from this picthresque aource are thoroughly worthy of it, same masaiveness, the same taste for bright color, the same quaint rocco details, including the pe-cullar battlement, which was a kind of Spanish hurn of dominion. At this one six green old bronze bells hang in as many niches together. The fern-like shadows of a line of pepper trees print themselves in the sunshine against the time atsined white wall. No more than the church now remains, the great agricultural establishments connected with these missions having been swept away years before the American occupation by edict of the Mexican Government. Some bits of broken aqueduct, and a few orange trees above a hundred years old, in what was once the missing garden, are the only vestiges of former prosperity. The interior of the church contains a few battered old religious paintings, always of the worst type of their kind. It is doubtful if the luxury of good pictures was ever superadded in these establishments to the excellent ar-chitecture, for which there eeems to have been a natural instinct.

The village is piquantly foreign. Its single street is composed entirely of white adube houses. One of them, with a tumbling red tiled roof, is so full of holes that it looks as if it had been shelled. All the signs are to Spanish. Here is the Zapatero, or shoemaker, and here is the Panderia, or bakery. The south walls are bung with a drapery of red peppera drying in the sun to prepare the favorite condiment. The population are a humble class, who gain their livelihood for the most part by day lab ir on the surrounding estates. They sro not too poor, however, to retain their taste for feativity still. On the occasion of some notable wedding among them they will manage to mount on hors surrounding a bridal carriage driven postillon fashion, return from the ceremony, at the old mission whooping and firing pistols in the cir in the most gallant and bilarious fashion

#### WINE AND TEMPERANCE.

During the session of the State Agricultural Convention, recently held in this city. Charles A. Weimore delivered a lecture "On Viticulture in its Relations to Temperance," From it we quote the following extract: "I wish that we could have the elergy of San Fraucisco and Sacramento with us to-night, that they might be impressed with our personnel; that we are not a lot of sots and intemperate men. When I first became interested in the subject of viticulture. I asked scientific and medical men why it was that the people of France, who are the most universal wine drunkers on the face of the earth, are the most progressive, economical and law-abiding citizens the world can produce. I found no immediate answer to my inquiries. The French drink more wine than we do, but were unable to give any explanation why that fact accounted, if it did at all, for the superior industry of their people. It was not until I got to London that I found an answer to my question. There I learned that the greatest foe to temperance was not the wines and brandles of France and California, but the beavy and unfermented beera of England and the adulterated liquora. Statistics prove beyoud the possibility of question that where wine is supplied to the masses jure and cheap, morality and health average high. It is a conclusion admitted by the most advanced political economists of the day that the presence of a pure, cheap wine acts as an exclusion of an ascerlained quantity of poisouone, destroying spirituons liquors sold under varions names. Just in the proportion as Califor-nia advances as a wine growing and wine drinking bia advances as a wine-growing and where driving State, so will its prosperity and rational temper-ance advance. In the exact proportion that the poor are given a healthful substitute for whisky in pure wines, will morality and temperance extend."

#### SOUTHERN CALIFORNIA.

A gentleman who has recently visited the southern portion of the State informs us that there are evidences of thrift in almost overy section. Fresno City, which was recently visited by a disastrons conflagration, is rapidly recovering from the effects thereof and will soon he entirely restored. Further south there is a countderable demand for finit and vineyard hads, and high prices are demanded. The irrigation problem is being gradually solved, and the equable chante is consing a rapid settlement of the country by immigrants. Sacramento Bee,

#### DO SOMETHING.

The Colusa Sun, a few weeks ago, gave the following most excellent advice to a certain class of men to be found in and around every town, of any considerable size:

Wo see every day mon idling around who will tell us that they can find nothing to do, but there is always somothing for willing hands to do. We know a poor man, with a large family, who took up a claim on the side of the hill this side of Bear valley. It was considered worthless, but he went to chopping wood, and, with three horses, hauling out on the plains, and to Williams, to sell; and, when he could not find a market near home, he brought it to Colusa. This looked like bringing couls to Newcastle, but it paid him better than laying around, growling at nothing to do. He would sell his wood here, and bny watermelons, cahbage, or anything else that would find sale in the other direction. This man's name is B. F. Goodire. He has done more than this. He has planted grape vines on the side hills, and demonstrated that they grow luxuriantly there without irrigation; that, in fact, the foot-bills of Colusa county considered worthless, are fine vineyard lands. If a man can't pick up a job by which he can make five dollars a day, let him tackle one ut which he can make one dollar. A man is always happier at work than he is in doing nothing because he has no time to brood over his ill-luck. The idea is, instead of waiting for something to turn up, take hold, and turn up something.

#### VINE GRAFTING.

The following valuable suggestions we take from an article in a late issue of the Santa Barbara

The planting and grafting of grape vines this year in the northern vineyards of the Stale, is marked for a universal demand for noted and rare foreign varieties. Many of the oldest and best vineyards in Sacramento, Naps, San Joaquin and Sauta Clara counties, are extensively grafting on the old stocks, using the finest and most valuable cuttings procurable from French, Spanish, and German vineyards. Different grapo localities on this Coast will soon be noted, not so much for the quantity as the superior quality, of wine and table grapes, and Southern California should not be behind younger vine districts in either respect. Dif-ferent varieties do not flourish equally in the same woil, and, after ascertaining whether a vineyard is best adapted to raisius, or table grapes, or to red, dry, or sweet wines, a specialty should be made of those varieties. Until this subject is studied with more care and labor than it has yet received, our grape-growers can not know the init capacities or may varied soils. The most faminis Entopean vine-yards, some consisting of only a tew acres, have atlained their world-wide celebrity through their perfect adaptability of variety of vine to soil, in some instances the effect changing at a distance of a few rods. This is the season for refl cuou, and it would be wise for vineyardists to exercise judgment in improving, as lar as possible, the tone, dayor, quality and tichness of present bearing viues, before planting new ones.

INQUIRIES ABOUT LANDS, CLIMATE, ETC. ETC.

In answer to many inquiries which the editor is constantly receiving in regard to the price of land. uature of soil, etc., in Butte county, the Oroville Mercary says: Prices of land vary from \$2.50 to \$50. Nature of soil, from black adobe muck to water in many places from tunning streams; there are in many places from tunning streams; there are in merous living springs in the foothills and mountains, and where ucither of these occur there are duches constructed for mining purposes that can now supply an abundance of waterfor mrigaling and so situated as to make it possible to ririgate nearly every acro of land in this section of country. The temperature ranges from 25 degrees in winter to 10 degrees in summer above zero—seldom going as low as the former. Orangea begin to ripen in November, and are all in shipping condition by the and of Degenber. We have no data dition by the end of December. We have no data on hand whereby we can state positively what the autual rautall is, but approximately, will say the average is shout thirty medes. There are always rains enough to mature crops of grain tu this lo-

CALIFORNIA AND FRANCE, its comments on the late wine growers convention the Merchant, of this city, says: With a country equal in area, sail and climate to France, we may look forward, though it will not be realized in our time, that California, instead of mising 10,000,000 or 12,000,000 gallona of the most wholesome beverage the world knows, will yield, us France did before the phylloxers raised one-half her vineyards, 1,500,000,000 gallons of wine.

#### THE FOOTHILL COUNTRY.

The newspapers throughout the State, published in the vicinity of the footbills are directing special attention to these localities for the growth of the vine and fruit Irees. Until within the past few years these uplands were cutirely unnoticed for the purposes of cultivation. But now that experiment has proved their great value, they are attracting special attention. The line views, rich soil, de-lightful climate and excellent water resources are pushing them rapidly to the front as choice spots pushing them rapidly to the front as enoice spots for the most charming homes. In the upper and central portions of the State the footbill lands are still cleap, but here in Los Angeles county they have reached higher figures, and the choices! localities are now in the possession of parties who propose to make improvements of a high Already several imposing structures are order. Already several imposing structures are mounted upon the plateaus at the base of the Sierra Madre mountains, while a tew of the more ambilious have selected projecting spurs for their residences. The footbills of this county, suitable for the most inviting homea, extend over one hundred miles, and if improvements continue at the present rate of advancement, a very few years will find them all occupied with a succession of charming homes that cannot be excelled American continent. There is a fine stretch of foothills, extending along the Cubucuga range, a distance of about twenty miles, between Los Augeles and Santa Monica. Then along the Slerra Madre we have an imposing plateau of some fifty miles, reaching from Passadena to Cajon Pass, overlooking the splendid valleys of San Gabriel and Pomona. A project is now a foot to build a narrow gange railroad from this city to Pasadena, which will no doubt be extended along these foothills on the most practicable line to accommodate the large population that will settle upon these lands. As the narrow gauge will contribute materially to enbance the value of the lands and hasten their occupancy, the work or building it will perhaps at an early day, and it will no doubt finally extend as far as San Beruardino. There is another stretch of footbills overlooking the rich lowiands of Downey, Orange, Anaheim and Santa Aua. If the water should prove ample they will also be quickly occupied. There are many other footbill sections, ou a smaller scale, that are exceedingly inviting, all of which will calch the eye of parties who desire picturesque homes. In the meantime, the rich valleys and plains, with their fatness, are being rapidly occupied. In fact, it is only the bleak mountain tops and a few alkall swamps that are not attracting special attention. Los Angeles county, with its unparalleled advantages of climate, soil, wide ranges of productive capacity, and superior rail and water communications with the outside world, is now enjoying a steady, healthy march of improvement; and the time is near at hand when the whole country will present a grand pana rams of most inviting homes. But they who shall have effected a lodgment in the footbills are to be especially felicitated on their good fortune. They will have all the bemfits of the low lands, with the additional advantages of daily looking out upon one of the grandest combinations of nature and art that ever set the eye of a pool in " hime frenzy rolling," or added a new cunning to the pencil of an artist .- Los Angeles Express

#### THE LARGEST GRAPE-VINE.

Captain W. G. Phelps has a grape-vine that is now believed to be the largest in the United States. and perhaps the largest in the world. In 1876 the large vine that was famous in Southern California was cut down and exhibited at the Centennial Exposttion. It measured fourteen inch sendiameter. This vine of Captain Phelphs' is twenty-five years ald and is thirteen inches in diameter. It is of the Misslon variety, and it has never received the benefils of irrigation. It stands near his house, and the of Stockion about two miles, and at covers about 4,000 square feet of ground. If it had been permitted to run where it wished it would have covered a very much larger area, but it was found necessary to cut it hack in order to save the roof of the house. The largest crop that it grew was two or three years ago, when, after selling a ton and a half by actual weight, the remainder was estimated half by actual weight, the remainder was estimated at two tone and a half. Captain Phelps had the vine photographed a few days ago, and he will send copies of II East for publication, as an evidence of the adaptability of the sull and climate of this part of California to the growth of the graps.

#### A PROSPEROUS TOWN.

The Los Angeles Express says, with considerable satisfaction, that "one of the business men in this city, who is in a position to know, informed us that three years agonbout seventy five per cent, of the properly of Los Angeles county was under mortgage at a high rate of interest. Now, the mortgages do not amount to twenty per cent., while the rate of interest solden exceeds eight per cent, with good socurity. It is offecer six por, cent. In fact, our Informant thinks the property of the county is practically free, as the mortgages could nearly all be lifted at any time."

#### ALVARADO, ALAMEDA COUNTY

A correspondent of the Rural Press, in speaking of the soil of this rich and productive locality, says:

Alvarado lies a few miles about south-east from Haywards. The surrounding country is low and level, being but a few feet above the sec-level. The soil is a rich, deep, sandy loam, well adapted to fruit and vegetables, and holds moisture remarkably well. Fine arlesian water is found at a depth of 70 to 100 feet, which, in some instauces, is used for irrigation, although the soil is of such a character as to scarcely nced it, yet the increased production justifies its use where it can be had at small expense

Large tracts of land in this part of the county, for miles around are devoted to beet culture. This is owing to the commendable enterprise of the Standard Sugar Manufacturing Co., located at Alvarado, which has created market for sugar beets at prices that made it n profitable crop for the farmer-so much so that other crops are comparatively neglected. An industry of this kind is of great advantage to the farmer and to the country generally, and should receive support and encouragement. Manufactures of all kinds are the great need of the country at present. Every enterprise that converts our raw material into articles of our own consumption, right at our own doors, saves freights, employs labor, and keeps money in the country.

#### TRE CULTURE OF HOPS.

Tehama county produces few, if any, hops. Still, there are some of the finest hop hands in the Sacramento river hottoms that there are anywhere in the State. The high price of hops will, no doubt, induce many men to engage in the business during the coming senson-that is to say, many men will plant out extensive bop yards; the area of hop-growing lands will probably be doubled or trebled, and by the time the vines commence bearing, hops will go down lo five or ten ceuts, as they were about five years ago, when a number of men were rained functially by hop-mising. It is a notorious fact, that whenever any agricultural industry in California begins to pay the producers a good, round price, men eugage in the same business, to such an extent, that the articles produced drop down so low in price, because of the great surplus, that failures in that line of business are the inevitable result. We do not make this statement to discourage hop-growing, but to put men on their guard, that hopgrowing may not be overdone, as it was some years ago. It is a legitimate business, and, if men will embark in it carefully, as in other business, then it will pay haudsonicly, from year to year, the good years making amends for the bud ones, when hops are low .- Red Bluff Peoples' Cause.

#### USEFUL MINERALS.

A writer, in the holiday Chronicle of this city, thus speaks of California's useful min-

Her hills and mountains supply metals and minerals of all kinds in the greatest abundance We have mines of silver, gold, nickel and quicksilver. We have some of the richest deposits of irou on the continent. We are amply supplied with copper and lead, while there are numerous deposits of tin as yet undeveloped. Hardly one of the minor metals known to science can be mentioned that has not been found somewhere within the limits of the State. As yet we are without true conl, but large deposits of it exist just beyond our northern and southern borders, and there is little doubl it will be found in the Coast Range or in the Sierras convenient to San Francisco and not far distunt from the iron deposits which are just being rendered available.

#### QUARTZ MINES.

Never hefore in the history of quartz minleg in this section has the quartz interests assumed a mure promising outlook than at the present thurs. The number of quartz locations, as shown by the records, are greater during the past year than at any corresponding one for muri than a deculu. Many of these locations have developed ledges paying from \$10 to \$100 per too. As late to expusion in all mining enterprises, some of the developments have proved worthless, but the large proportion of telega disnovered have, by mill tests, mere then exceeded the expectations of the prespectars, and Justified them la erecting holsting works and going to other expenses to place their mines upon a dividend-paying basis,-Nevata Transcript,



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Does it give you irouble to look after the advertising to each particular paper? Let us do your business and we examine every paper, and see that every insertion is properly given and all outselons made good.

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Is your credit so will instablished that you can secure very low rates by trailing direct with publishers? If so, we want your business, and will procure you equally

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If you do much or little, we shall be glad to do it for you, and give you corry advantage which our experience of sevention years enables us to offer.

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Do you find it difficult to get exactly what you want? Write us in detail just what you will require and see if we do not give you salisfaction.

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Time and again we have given lacts and figures showing conclusively the benefits and profits to be derived from a woolen mill in the Santa Ana valley, and we intend to persistently arge this project upon the altention of those seeking prolitable investment for their money, convinced that, sooner or later, we shall find parties willing to imagarate that enterprise. There is an abundance of water power, a few miles from our town, to turn a dozen mills, Last year 3,000 bales of wool, of an aggregate weight of 1,236,869 pounds, were shipped from this section by raihoud and steamer, much more than enough to run a mill here during the whole year. It needs no argument to convince intelligent persons that such an enterprise will pay. It is only necessary to cite instances where such mills have puid good returns to investors. The mill at San Jose is a notable example. Stock in this mill is and has been at a premium for a long time, Another instance is that of the Ashland (Oregon) mill, where from 100,000 pounds of wool fubrics were made of the value of \$40,000 to \$50,000 last year. The Oregon City woolen mill, last year, purchased 1,000,000 pounds of wool, manufactured it, and puid their employees \$75,000. Rurely has there been a failure in this line of enterprise. The establishment of such an industry in our calley means money in the pockets of those who invest in its stock, and a benefit to the people o this lown, by the building up of a prosperous community in the neighborhood of the mills, as has been the case at San Jose. There has never yet been any difficulty of disposing of the products of woolen mills established in our State. Indeed, their products have not only found a ready market at home, but or ters have been constantly received from abroad. All hail the day when the Santa Ann woolen mill shall be established .- Santa Ana Herald.

#### TRIS GREAT AND GLORIOUS COUNTRY,

With her crop at 6,000,000 bales of cition, toward 600,000,000 bushels of wheat, and over 1,500,-000,000 bushels of corn, we may look upon our enormous and astonishing imports as not alarming. The owners of American railway property have a right to expect particularly happy results, and those who feel discouraged at the comparative slowness of our export markets may possess their souls in peace. As Europe must take our surplus, we need not be in a harry to send our new cotton and our foodstuffs abroad, and we need not send anything on which we have not made a good profit. The future is decidedly in our favor. Our larmers have and will have no akundance of everything; our mechanics and laborers will have cheap food; our factories are husy and will so continue; our transportation companies begin the best season on record; our merchants and tradesment will have better buyers and more enstomers than during the last twelve months; and our financial institutions will be busy and prosperous, -Boston Advertiser

#### THE FOOTHILL LANDS.

The Grass Vulley Tidings says that there are many hundred acres of land in the lower part of Nevada county, where grapes can be profitably grown. Wine, raisins, and grapes are in demical all over the world, and no country can produce them equal to California. The Tidings adds, in speaking of the hands in its vibinity smtable for such purposes, that they can be had nt very low prices Some of that laml is owned by the Central Pacific Railroad Company, and such can be bought on most favorable terms. 'The "out of doors" part of this county, which is capable ad great results in connection with grape culture, is very extensive, and awaits only proper effort to make fortunes for those who will put in the work.

The Oakhud Tribune says: Mr. Mason, lormerly a painter of San Francisco and Oakhaul, a few years since purchased, at a low figure, ten acres of hillside land in San Publo township, and turned his attention to the culture of ridsing griques. His vineyard come first into full bearing the past senson, the yield being over 50 tons of grapes, producing twelve tons of excellent raisins. Mr. Mason's net return for the year's labor and attention, was \$2,000. An experienced wheat-grower, whose success has been uniformly fair, declares that 40 ucres in vines are prefundble to 500 acres in wheat, both for profit and certainty of crop. What splendid appartunities have the young men of Californial Better far than those offered by the learned professions.

AN ENGLISH VIEW OF CALIFORNIA An Englishman, who recently visited our State, writes as follows to the London Stand-

For my own part, I can conceive no region more inviting to the settler thun the beautiful valleys of Southern California, where bountiful unture appears as though she could not do enough to bless the toil of her children.

In that magnificent valley which runs from north to south of the Golden State, every variety of climate is to be obtained, and the man who likes a moderate degree of cold can suit himself by buying land in the upper part of the Sacramento valley, where winter is marked by frost and occasionally snow; while he who prefers semi-tropical warmth will find it in the south of the great San Joaquin valley. Both will find that for long months together they can work in such unchanging sunshine us they scarcely dreum of hencalh the gray skies of Britain.

It almost seems, however, us if the whole of California was destined for cultivation, so admirably are both soil and climate adapted to the growth of all manner of Iruits and cercals,

When I think of the toil I have seen expended on clearing even a corner of a highland form, (to yield a miserable crop of oats which might, as likely as not, have to be out green in October), it sounds too good to be true to know that here is a rich soil, which needs no clearing of brushwood or drawing of stumps; no costly buildings, no burns, no storing, even of fodder.

### FARMER'S PROFITS.

We take the following from the Kern County Record

Every farmer in Kern county who owns land and has industriously employed his time, succeeded last season beyond all reasonable expectation. Many have made the cost of their farms. One man, Mr. Stockton, sold his farm last spring for \$4,000, and the purchaser realized \$9,000 for the alfalfa seed on it. Mr. S. Jewett has a section of hand on the north side of the river, one half of which he has planted to alfalfa. He cut the clover three times last season, which averaged two tons per acre for each entting, making six lons per acre. The cost of cutting, stacking and hauling to the depot upon contract, amounts to five dollars per ton, and the price paid at the depot is ten dollars per ton, in cui-load lots. This leaves not five dollors per too and thirty dollars per acre for the season. These are not mere estimates. They are uctual facts, and are by no means exceptional in the valley. The demand for hay is increasing, and must increase for many years to come. The Atlantic and Pacific railroad will be finished to the Colorado earty this year, and this valley will be the base of supply for the whole distance. Good alfalfa lands are sold here for from \$15 to \$25 per acre, and the first crop will pay for them.

### SMALL FARMS AND HAPPY HOMES.

"There is no surer way." suys one of our exchanges, "of promoting and securing the general interest and prosperity of California than by settling small farmers upon her rich hands, and building homes. When the time comes that pleasant farm-houses shall dot our handscapes everywhere; when there are lewer estates stretching like empty empires over miles and miles of our best and most fertile soil; when more hand is tilled, and new industries spring up, as they naturally will with the influx of population, then we shall begin to realize the vast possibilities of this section, and see the hulfillment of some of our best hopes." No truer words were ever spoken or published, and we regret that we are now unichle to credit them to their proper source, Slowly, but surely, the sentiment that land monopoly and the maintenance of ranches are an injury to the State, and delaying the development of its resonrees, is gaining ground among the people. - Sacramento

VALUE OF REACK SAND
The Mountuin Democrat says: The black, magnetic sand that is found in abundance in the washings of our gold mines, is, by a new process, ntil-ized in the minonfacture of cast steel direct from the sand. Eight pounds of sand yield five pounds of steel. The slog that is left is valuable as coment for fire-groof, roofing. The inventors, predict that their discovery is destined to revolutionize the stee trade on this Coast.

#### THE FOOD SUPPLY OF EUROPE.

Under this hending a writer in the Santa Ana Herahl, furnishes that excellent paper with the following article:

When a whole group of unitions is increasing in population and decreasing in production it becomes a serious question how to supply the people with food. This is the present position of Europe. The population of Europe is, ou nu average, increasing 3,000,000 annually. The present grain and ment production of all the European countries full short of the present production of these articles about 793,000 tons of meat and 343,000,000 bushels, or 8,500,000 tous, of grain. This deficit represents the amount of the present average imports of these two urlicles from other countries. This deficit is equal to about one-twelfth of the whole production. lu other words, Europe supplies her own neople with food eleven mouths in the year, and buys enough to carry them through the other month. In the face of this fact it is known that the meat production and grain production are decreasing instead of increasing. Eugland represents the greatest deficit compared to her population, but the fact that all Enrope is falling behind, and can not supply the people with food shows that Eugland can not depend on a surplus from Russia, Hungary, Holland or Denmark to make up her deficit, and must therefore go to another contiment for it. She must come to America for a large share of her ment and grain over what she produces herself. While England is failing in agriculture she is increasing her commerce, and is doing the carrying trade for the continent. In this way she may not be only holding her own in wealth, but actually in-creasing it. England built last year more vessels than ever before in one year-the new tonunge being, in round numbers, 1,000,000 tons. Thus while the United States will make money off of Europe by her agriculture, Eugland will make money off of Enrope by ourry ing our agricultural products to the Europeau markets.

#### VITICULTURE IN LOS ANGELES COUNTY.

L. J. Rose, Commissioner of Los Angeles Viticultural District, in the course of a recent communication to the Semi-Tropical Californion save:

I would estimate that there are 9,000 acres of vines now in this county. Of these 6,000 acres were in bearing last year, yielding say 60 000,000 pounds of grapes. This would give at least 4 000,000 gallous of wine if all had been made into white and red wine. It has, however, been made largely into sweet wines and braudy, say 300,000 gullons brandy; 500,-000 gallons of port, angelica, sherry and muscatel; 2,000,000 gallons of white and red wines Further experience has confirmed the former opinion that this county can make light bodied table wines, both white and red, and of any degree of spirit strength wished for.

Owing to the better understanding, more ex perience, in the making of wine, and new varieties of grapes adapted to specialties, there is a continued improvement in the quality of our wines. Lands can be procured here at reasonable prices, in fact, very low prices as compared with other sections of our State, and our shipping facilities will compare favorably, both in cost or tacilities, to any other portion of the State; whereas the climate is nasur-passed anywhere for the whole year, for although we have, perhaps, a more uniform warmib throughout the year, yet the mean temperature does not exceed that of Napa for the summer.

#### MUSSEL SLOUGH RAISINS.

The Visalia Della states that among those making The Visalia Della states that among those making this very best of raisins, in the Mussel Slough country, is Mr. Peter Seazlghini, whose place Lalfa anile north of Graugeville. From about two and one-half neres of white Museat vines, he sold, last reason, about six and one-half tons of table grapes from this viueyard, at one and one-half cents per per pound, amounting to \$200. He has also cured 250 boxes of excellent raisins, twenty pounds to the box. This shows a yield in money value of \$700, or an average of nearly \$300 per acre

#### A RICH BLANT.

The Amsder Dispatch says that a blast was put In at the old Spanish mine, near the Mokelmine river, now owned by W. A. Nevils & Cn., a few river, now owned by W. A. Nevils & Co., a few days ago, and from three pans full of dirt and rock which was thrown out, the most little sum of \$8,000 was realized. The blast seems to have struck a pocket of extraordinary richness.

#### HUMBOLDT RAILROADS.

The inauguration of rallroad enterprices in this county is already altracting the attention of capitalists who are in scarch of a profitable field for investment; and now that a new era is dawning upon this county, bringing its extraordinary resources prominently before the public, there is no denying the fact that Humboldt will, at an early day, be connected with the main railroad lines of the Pacific Speaking upon this subject, in which every property-owner in the county is interested, the editor of the San Francisco Chronicle, of recent

The northern counties of the State are about to enter upon a career of rapid progress. The Centrat Pacific is being built to the Oregon line, and branch ronds will be built to tap the surrounding country ronds will be binift to tap the surrounning country along the main route. Another event of much importance to the north-western portion of the State recently occurrent. Two railroads bave been projected from Humboldt bay, to run southward to the Eel and Van Duzen rivers. One of these roads, of the standard gnage, which is already incorpo-rated, will make Eureka its northern terminus for the present, but ultimately it is designed to extend it northward lo connect with the Oregon road now being built from Roseburg. The other road is a narrow-guage, and will start from the southern end of Humboldt bay, extending to the dense timber forests on the Eel and Van Duzen rivers. Both these roads will traverse rich agricultural fields, and will, without doubt, bring into market a large tract of arable land which at present is inaccessible.
Other things will also contribute to the growth of Humboldt county. Humboldt bay has recently hern made a port of entry, and the facilities for shipping are being extended. These things assure Northwestern California a rapid development .-Hamboldt Telephone.

#### ANOTHER PETRIFIED FOREST.

Information has reached us of the finding of a Petrified Forest" about helf a mile this side of the orienal collection of curiosities bearing (bat name, which this latter discovery, according to report, fully equals if it does not exceed in the per-lection and variety of its petrifications. It is upon the ranch of Mr. W. T. Hudson, and was discov-ered by his nephew while out deer hunting, the chase leading bim over a section of his uncle's land which, owing doubtless to the extremely rugged nature of the ground, had apparently never before been explored. His attention was first arrested by the sight of a large pine stump, some three and a half feet in diameter and six feet high, which, while it had retained all the appearance of wood, was nevertheless turned completely to stone. Further inrestigation rerealed the fact that all around the ground was thickly strewn with petrification, trees two feet and more in diameter lying upon the ground entirely perfect as to limb and bark, but changed to solid stone. In some if the logs are cavities, evidently originally hollowed out by fire, since they contain ashes. Only an sere and a half of land had been gone over at the time our a half of land had been gone over it the time our unformant left, and it is not known how large an extent of country the newly-discovered "Forest" covers. It is said that Mr. Hudson, proprietor of the land thereabouts, is as pleased with the discovery as if it had been a gold mine,—Sonoma Democrat.

#### A PROSPEROUS LOCALITY.

During a ride from Martinez to Concord, Contra Costs county, recently, the editor of the Antioch Ledger, says:

We were forcibly impressed with the evidences of thrift that are visible in the way of permanent improvements—such as than dwelling houses, orchards, vineyards, nest and substantial fences, etc. Even Pacheco seems to feel the wave of prosperity, and some of its old and decayed buildings have been repaired so as to present a much better anpearance, and are again occupied. In Concord building is also going on. A fine store and hall structure ts just being hard-finished, and the Presbyterian church is approaching completion. The improvements indicated show that the people of this county, as well as elsewhere in the State, are realizing that they come here to make their farms and surroundings homelike.

#### THE DATARIO OUTLOOK.

The following is from the Ontario Fruit Grower, Sun Bernardino county:

It takes time to establish and build up a new settlement. On the first of December, the Ontario truct was as yet not ready for sale. Since that time 395 acres of land, and several town lots have been sold for an aggregate of \$68,825, and many are still looking over the tract and getting ready to pur-chase. A botter start has never been enjoyee bechase. A better start has never been enjoyes be-fore by any new enterprise in this country, and those who settle here need not fear but that they will have plenty of neighbors from the start. Not only this, but they will have the advantages of a rattrond station, stores, goat-office, express affice, and, he we months, a first-class school in a large fine building that would be creditable to an old



BROAD GAUGE.

#### Winter Arrangement.

Commencing Sunday, Oct. 22nd, 1882, And uptit further notice, Passenger Trains will leave from, and arrive at Sun Francisco Passenger Deput (Townsend St., behreen 3d and 4th streets) as follows:

B. P.	DESTINATION.	8. F.
6:50 A. M. 8:30 A. M. 10:40 A. M. 3:30 P. M. 4:30 P. M. 6:30 P. M.		6:40 A. R. 9:05 A. M. *10:02 A. M. 3:37 P. M. † 5:04 P. M. 6:02 P. M.
8:30 A. M. 10:40 A. M. * 3:30 P. M. 4:30 P. M.	, Santa Ctara, San Jose and . , Principal Way Stations.	9:05 A. M. *10:02 A. M. 3:87 P. M. 6:02 F. M.
10:40 A. M. * 3:30 P. M.	Girey, Pajaro, Castroville, and Monterey	6:02 P. M.
10:40 A H.	. Holitator and Tres Pines.	6:02 P. M.
10:40 A. M. * 3:30 P. M.	.Watsi v os.Soquel.	0:02 P. M.
10:40 A. 31.	Salinas, Stations Way.	6:02 P. M.
	1. 3. 12 1	(Continues la

\*Snndays excepted, †Sundays only (Sportmen's Train).

Stage connections are made with the 10:40 a. m. Trata, except Pescadero Stages via Sun Mateo, which connect with 8:30 a. m. Train,

#### EXCURSION TICKETS

Sold on Saturdays and Sunday mornings-good to re turn Monday-

San Jose.

Ticket Offices,—Passenger Depot, Townsond street and No 2 New Montgomery street, Palace Hotel.
A. C. BASSETT.
H. R. JUDAH,
Superimendent,
Asst Pass. & Tkt. Agt.

@78. P Atlantic Express Train vis Los Angeles, Yu-ma, etc., leaves San Francisco datly via Onkiand Ferry, foot of Market street, at 9:30 A. M.

## OCCIDENTAL AND ORIENTAL STEAMSHIP COMPANY FOR JAPAN and CHINA



LEAVE WHARF CORNER OF First and Brannan Streets, at 2 p. m., YOKOHAMA & HONGKONG

Connecting at Yokohams with Steamers for Skanghae

Will sail from San Francisco

1883,

ARABIC ... Thursday, January 18,

DEEANIC ... Thresday, Jonuary 30,

COPTIC ... Saturday, February 10,

GAELIC ... Tursday, March 6,

BELGIC ... Saiurday, March (7)

#### SPECIAL NOTICE.

The Steamship Gache from San Francisco March 6th also the Steamship Belgre of Marcu 17th, will continue on from Hongkong, via. Snez, to Liverpool, offering superior accommodations and quick time for Tour laise or route "Around the World,"

Excursion Tickets to Yokohuma and Return at Reduced Rates.

Cabin pians on exhibition and passage tickets to sale at C. P. B. R. Co, 's General Dilices, Room 74, Corner Fourth and Townsend Streets.

FOR FREIGHT apply to GEO. H. RICE, Freight Agent, at the Parific Mail Steamship Company's Whart, or at No. 2023 Market street, Union Block.

T. H. GOODMAN,

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Leave San Francisco Daily,

Making prompt connection with the several Railway Lines in the Eastern States, for all the Cities of the

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With the several Steamer Lines to

England, France.

AND ALL EUROPEAN PORTS.

# Silver Palace Sleeping Coaches,

Second to None in the World.

Are run daily between SAN FRANCISCO and NEW YORK, and intermediate points. These Drawling Room Cars by day, and Steeping Cars by day, are unexcelled for confort and convenience to the francings white a room-combining the elegance of a private parter, and if accommodations perlating to a well-trunsless chamber, with confortable conches, clean bodding, etc. A compeled Porter accompanies each Car, to a stead to the wants of our Patrons.

Children under Twelve years of age, Half Fats, Ender Five years of age, Free.

100 pounds of Baggage per full Passeager free, 50 pounds of Baggage per half Pas-seager, free,

#### PRINCIPAL TICKET OFFICE AT THE

## OAKLAND FERRY LANDING,

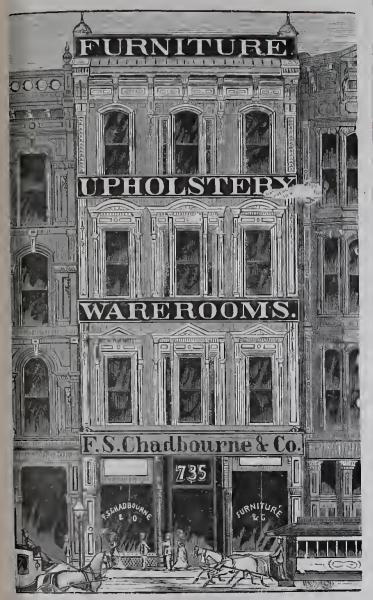
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Wholesale and Retail Dealers in

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# OF EVERY DESCRIPTION.

Chamber, Parlor, Library and Dining Suits.

IN AN IMMENSE VARIETY OF STYLE,

Book and Library Case Wardrobes, Ladies' Writing Desks, Turkish Easy and Lounging Chairs, Etc .-- Hotels and Private Residences Furnished .-- Designs Furnished and Estimates Given.

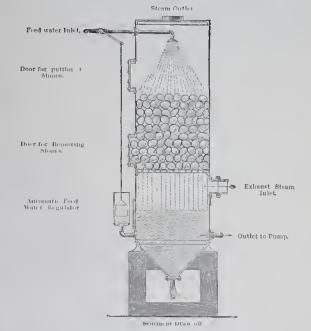
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For the Prevention and Removal of

#### STEAM BOILER **INCRUSTATIONS** WITHOUT THE AID OF CHEMICALS.



Heats the water to holding point. Frees 11 from all chemical imparities. Sowes from 30 to 50 per cent of water by condensation. Prevents the formation of scale, and saves fully 25 per cent in fact.

Further particulars with full descriptive circular and price list can be obtained at the office of the

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330 PINE STREET, ROOM 7,

SAN FRANCISCO. CALIFORNIA.

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NO DRUGS.

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TRY THEM.



Send for a Sample Order, and Give our

"GIRLS"

a Trial.

YOU WILL WANT MORE.

Manufactured by

#### CULP & CO.

SAN FRANCISCO. No. 16 Front Street,

## CALIFORNIA AND ITS MANY ADVAN-

A writer, in the Weinut Creek (Contra Costa county)
Independent, furnishes that paper with the following
article regarding our highly favored and rightly one
dozed State:

California is the account largest State in the Puton, Texas only being larger. It is nearly as large as the Eastern and Middle States combined. Its tength is about 750 roftes; its average breadth, 250; and its area, about 550 00 temperatures.

It is no re than two-and-a-half times as large exactly

It is no re than i wasanibashalf three as large as all the Now gland States, in which is the dudn'd the State of Massachuselts, with a population of 1,800,000. It is more than than twice as large as the great Shiles of New York and Pounsylvania together, which support a population of unite 10,000,000. It is targer than the three agricultural States of Illinois, Onto and Missort, within whose longulation ver 7,000,000 of inhubitants like comfortably, and have an abundance of room to spare; and which States still invite immigration within their burders.

California has as much sea coast as the Now England States, Now York, Delaware, New Jersey and Maryland combined.

The San Francisco Bay in a butter harber than any on the Allantic Coast; and the San Diego Bay is as good as

The number of acres of agricultural lands, including inte and footbill lunds, as given by the United States Surveyor General, is larger than that of the two most prosperons and pupulous States in the Union-New York and Pennsylvania.

The number of acres of timber lands exceeds that of Minnesota and Wisconain together, or that of all the New England States.

New England States.

The mining region of! California covers nearly as much territory as the mountains within her burders; and embraces a country as large as Michigan and Pennsylvania, which two States are noted for copper, iron and coal. The mountains of the Golden State produce more gold than any other country in the world, and are rich in silver, lead, copper, from, quicksilvet, and other metals. In fact, the variety of precious and base metals is quite as great as that of Europe or Asia.

The cilinate of California is as baliny as that if Italy. The soil as deep and rich as that of France. The cilinate and soil will produce a greater variety of products than any other one political division in the world.

The storms are less frequent and severe than those of Spain, Portugal or Japan. The surface of the country is not below the scalevel, and requiring the expense of maintaining bundreds of miles of diking, and immense levees, as does Bel Imm or the lower part of Germany.

The natural wonders are as marvelous and as great in number and variety as those of the Alps and Ap-

With these varieties, equalities, advantages and anperforities, California invites population from all the civilized world; and people from any climo may find a congenial home, similar, in many respects, to the one they left behind.

It is evident the future of California will be a grand one—at present it is but an infant in population and wealth, and its capabilities ore almost unlimited in number and value to the human race.

The following figures show its superiority in size, and its inferiority in population, compared with some of the greatest, richest, happiest, and most prosperous nations on the earth:

7	sq. Milles	Pop.
California		8114,000
Sats Salvador		600,000
Guatemala		1,150,000
Wales		1,300,000
Cuba		1,400,000
Greece		1,700 000
Chili		2,100,000
Ceylon		2,600,000
Swilzerland		2,800,000
Scotland		3,600,000
Portugal		4,4130,000
Ireland		5,402,700
Spata		16,565,000
England		23,500,000
Prussia	.135 000	25,759,000
Italy	. 111,000	291,1600,000
Japan	149,000	1km,000,001
Syria and Palesline	. 120.1.00	3.000,000

#### THE "WEST SIDE"

From parties Ilving near Hill's Ferry, he Stanblans county, we learn that crops in that vicinity are landing well. They have the means of securing coings thereabouts, in the Farmers' Canal, which runs from about eight intice above Firebaugh's Ferry, a distance of between 85 and 90 intites, to a poind eight intice above Hills Ferry. Our informants say thus cand is 50 feet wide on the hotion, and is now carrying from four to five feet of water. They have plenty of water for jurgouse of treigation, and, as it requires only one welting to secure a crop, they are acquir prepaid for the fourth and expense. Last year work on the canal was stopped because some land-owners refused to allow the company the right of way through their lands; but may, such the right of way through their lands; but may, such the right of way through their lands; but may, such promise of 'crops which have team freighted, those farmers are auxious to give the company any thing they may ask. We are also informed that the canal can be extended along the loothills to a distance of several miles below fluctus, and that planty of water can be had to Irrigate the whole country. The water is now used at such those so it is not needed in the San Josephin Free, and it is identify in what could result to the navigation of the river. If the scheme is founding, at some tidd the West Shie, in our county, mind excessarily know the heavell of such in higher-monal horse long the water for the season. It would seem to any me that this must become a good investment for capital which is now acaking low rates of interest.—

#### GOVERNOR STANFORD'S VINEYARD.

In speaking of the largest and best vineyard in the world eword by one man, the Tehama Town, kub bladed in Red Bind, says.

Hished In Red Bind, says.

Vinn is or rulliond station with a few hundred inhalationia. Aside from other rarirod stations it mainly owes its importance and influence for two facts—that is rich soil and sme-cpitbility of treigation, and that it is rainly owned by extinvernor Stanford, the relirond magnate, who is determined to spore no money to make that section biossam into full productiveness of course the few owners of hand in this section, who hold about from Stanford's influence will receive their reward, for they will profit by the energy and enterprise of the millionairs. A few years ago like mitroud magnate, tioy, Stanford's influence will receive their reward, for they will profit by the energy and enterprise of the millionairs. A few years ago like mitroud magnate, tioy, Stanford's influence will receive their environd magnate in the millionairs, and that ever hid out doors, and cost the gurchases upwinds of \$200,000. Starte that important purchases, the railroad magnate has given that section a mighty boom. Its bought the Gerke grant on a specificity, and has made the most of his bargain. We are reliably informed that Governor Stanford has visited Vina but twice since he made his purchase. Before he visited the place at all, his agent had Lood series of land in whice. In the meantine an elaborated trigating scheme, with main and counter altelies, had been provided; and now the whole fract can be freely irregated from the celebrated waters of Deer creek. Twice,

#### THE RAISIN GRAPE.

A writer in the daily Examiner, who has had a good deal of experience in grape culture and rubin-misking,

We have hitherto arged and advised the planting of grapus by all who have additide lands in the Sinte, he lieving that they will, if largely cultivated, do much to increase the wealth and prosperity of all concerned. More especially could be advise the planting of those varieties found suitable for making good radials. During the recent session of the State Vilicultural Society, in Dushawsy Bidl, Mr. Webmor back according to state that whe could be much from radians, and that we may yet see the wines of this State experted in boxes. This statement was probably received with much surprise by many of those present. Yet Mr. Webmore might bruly have made a much more advanced and positive statement, for the bushoss of making wine from radians is now far beyond the experimental stage, and has become a regular commercial intuity. In the report by United States Consul Taylor, for 1889, the lingert of radians and Zaule Currants at the port of Michelles are given at 37,391,427 kilograms, equal to 75,000,000 pounds. Of these the beaust shotes that 30,00,000 along the process of soaking radian in water until they have again the appearance of a fresh strape, after which the maind process of making who from



#### THE QUIET OF MIDSUMMER.

shace Governor Standard possessed this right inheritoreo loos he visited it, and yet increovements have rapidly progressed. Lest year the ked planted 1,000 acres more, This with notice the largest which related 1,000 acres more. This with notice the largest which related owned by any one man in the world. And it is said that the redireal cognite too serfected name but the largest with the the first owned by one man. If it remarkable that Gove, Stanford should select so favored a section by grozy. The soil is the richest but could be exposed to the sam, and every high the sans-cipilide of irrigation from a living atoms of worse, our correspondent went through the wine vaults, and saw 31,000 gallons of whose, tande from the old whose should be exposed to the son, and every here the same striped in the results and saw 31,000 gallons of whose, and from the old whose should be exposed to the son, and the first standard whose the results and whose grapes, but that the linest stock will be provided for. A tract of 600 secres has been planted to into fix full trigated which initiates that Standard intuities to have a first-class ranch to full lack on should the lattroad Containsion chief that located it. Mr. Smith superintends this entire possession, and the first like Governor Stanford has visited it but twice, is a vidence that the gives entire satisfaction. A hat of new tenting lace on the first owners of the winding of ever or at this time. But sufficient It is to say that Governor Stanford by graphing a possession at Vinn that with not be second to a principality when it matures.

grages is followed, a fittle more care being wanted. The only detect in wine inside in this way is a lark of color, or, at most, struv-colored. This is remeiled by artificial coloring, and the lineal authorities are very watchful and rareful to prevent the use of poliorious coloring indectabs, scarcety a week possing without some wine before condement, as adulterated, and poured into the sea. "The raidin while is also largely used in its natural state," may the Genard, "that is to say, without being colored by artificial means, by shirply culving it with red whose that are so deep in color that the adjunction of a certain quantity of rad who really hoppower boths. At all events this hobistry is now thelying, and, when tenestly followed, is minimibifully heneficial to the industry of the country in which the use of wine has become so general as to be almost indispensable. "Pittle and under more information is contained in the report dated Marseilles, Navember 28, 1884. This domaid in France for raishins is on account of destruction of the French viencyards, to a great extent, by the phylloxera.

iont, by the phyllovers.
If will be seen that one only fromble will be to got the radshes grown and cared. The markets of the world will take all that can be produced. Even the most zonlow troubliblicish will heally venture to attack the rubbit business; and, ashie from lide me for them he demand for cooking and fathe me is be illimitable. Produce and philambropy, attachment he according to the produce and philambropy attachments the grantestant of wealth by the extended of our ladicties, so that employment and subdislence can be found for the

increasing population now crowding in upon us than been remarked that "be who makes two biding a grass grow where but one grew previously, is a beneficiar to the rare." So is he, threads, a beneficiar as contriven to get as much value from one acre of that was formerly, or under another kind of cultivation, latined from three as rea. With radials this specify the case. We hear of crops which are worth flow a 500 per acre. If no doubt require crize are used industrials as a superior of the control of the control the cases which results, and on that account the cases and is the man of small means. If we can have means a smits the man of small means. If we can have the while callivation of this kind of graps, we shalt out that we have done acons good to the State.

#### THE NORTHWEST,

The following interesting colonity (between k, Botert K, Straihorn, editor and proprietor of the ko-B'cd, published at Denver, Cidorato Territory, and representative of the Benver News) we find in the lite-journal.

"It's a hig conniry, isn't it?"

Mr. Robert E. Struthorn, wto has just returned from iwo months' tour of the Northwest, smiled. It was complacent smile, not unmixed with pily, and pelaps a Hitle contempt.

"Big, do you say? Well, yes, I should say it be rather large." Crossing his leg conformbly, and hea rather large. Crossing his leg conformbly, and looking at the reporter thoughtfully, he continued. "To drainage of the Colombia river covers an area of the 1990 square units. That doesn't took very big, design No II doesn't convey a very graphic idea of the sing of the Northwest. But you'll understand it better when you look in your atlas and learn that it is large than all of the New England States, New York, Pens sylvania, New Jersey, Ohio, Indiana, Iltinois and lov That's about the size of the Northwest, computer Idaho, Montona, Oregon and Washington. Three enough room there for almost everybody, for the contry is more adapted to and is more susceptible of the babiliation than even thickly-settled New England a Why. If the valleys were settled closer than those of France, they would contain 33,000,000 people; et a those of England, 75,000,000-should style,000 more than we now have in all the light of Sintes. There is limit to the greatness of the fulgre which this count bas the qualifies to achieve. It has been two ran since I made a four of the Northwest. Bid I see us change? Yes, more than I can tell you of, and more than you would have room to print. I can mental one change which will give you a general ides of the development of that country in that short pend-and that, too, before the rea of relivoids had dawed. On this trip I saw unites and unites of farms along the Columbia river, on land which, when I was there to years ago, was consulered absolutely worthless, it a surprising to use how that far-off country made as advance. The outlacles which stood in the way seems insurmounlable. In the first place, it was compar-tively unknown, and not all correctly known, Adde to this was the difficulty which the settler had in read-There was not much to lempt a man to that foundles by slage in a country which common rest said was wet enough to drown him, or cold enough's freeze him if he should escape death by the firsten But in the face of these supposed dangers (5,000 him settled in the Northwest in the past year."

#### MR. COOPER'S OLIVE INTEREST.

The Sania Barbara Press gives the following interesting statement, concerning the operation of Elwost Cooper's olive Industry

On a recent trip to Elwood, Mr. Cooper's farm, twee colless west of Sauta Barbaro, a general surprise swale not. There could be no room for doubt that Mr. Cooper had been very successful in the management of befarm of 2,000 acres, as the four-horse wagen-loads Engiths healthing and almombs counting into form evenly from his place gave abundant evidence, but were not prepared to spent half a day on such a limited by the property of the propert



J. P. H. WENTWORTH, Editor and Proprietor,

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in width. It is drained from the north by the Sacramento, the largest river in the State, and from the south by the San Joaquin, the longest river in California, which, after meeting and uniting in the center of the basin, break through the Coast Range to the Pacific. At the junction of these two great rivers lies San Joaquin county, which is bounded on the north by Sacramento, on the rast by Amador, Calaveras and Stanishaus; on the south by Stanishus, and on the west by Alameda and Contra Costa counties; having an area of 928,000 acres of surface; 876,287 acres

Mokelimme and the Stanislans rivers join the San | the fact, that fruit and vegetables mature earlier Joaquin with a flood sufficient, in certain seasons, to render them navigable for a considerable distance, and farnish a supply of water adequate to the irrigation of the hards lying between them, embracing the richest section of the county. The soil of the river bottoms of the San Joaquin, Stanislans, Culaveras and Mokelunme rivers is a rich sandy loam, well adapted to the growth of sweet potators, hops, corn, peanuts, flax, henp, jute, runie, chicory, melons, and small fruits, vegetables and all manner of root crops, producing enor-

The bottoms along the other than elsewhere. streams, traversing the county, and the islands of the San Joaquin river, are one continuous garden, yielding large crops of vegetables, of all kinds, an-nually. We find that San Joaquin county occupies one of the most favorable and important positions of any locality in the State, on account of its uccessibility to the various markets of the world; its navigable streams; its excellent railroad facilities; its large area of tillable soil of the most productive character, one-fourth of which consists



BIRD'S-EYE VIEW OF STOCKTON, CALIFORNIA-FROM A PHOTOGRAPH BY J. PITCHER SPOONER,

## SAN JOAQUIN COUNTY.

The Great Grain Depot of Cal-

THE CITY OF STOCKTON, Her Manufactories and Business Enterprises.

Other Towns and Villages Described.

[By the Traveling Agent of The Resonaces.] Adifornia, as is well known, is divided by two great ranges of mountains, viz.: the Sierra Nevados on the east and the Coast Range on the west, runon the east and the Color Range on the week, cur-ning parallel with the State from north to south. Between these two ranges of mountains lies the great basin hearing the double name of the San Josephin and Sacramento valleys, although, really, but one geographical formation. This great valley is some 400 miles in length and from 50 to 60 miles

of this is owned and assessed, thus leaving only monsty without irrigation. 51,813 acres of waste land, which is river bed and some broken hand in the northeastern and southwestern portions of the county. San doaquin is one of the wealthiest counties in the State, the value of all property in the county being \$29,643,221; value of personal property, nearly \$6,000,000 more; the rate of taxation is \$1.30, being the lowest in the State. The census of 1880 gives San Jonquin a population of 24,373, which has increased fully twenty per cent, in the last three years, and would give this county 32,000 people years, and women San Joac at the present time. San Joac Watered San Joacmin is

By the San Josephin river, which passes through the entire length of the county, from south to north, spreading into three channels a few unles above Stockton, and taking in its embrace two of the largest islands in the State. No streams of any importance enter it from the west, but on the enterly side, within the limits of the county, the

among the first in the State as a wheatgrowing county, the yield of wheat ranges from fifteen to forty bushels per acre, and in except-ional localities as high as 50 and 60 bushels have been produced. Although the grain-growing in-terest predominates over all others, stock-raising forms no inconsiderable part of the industries of the county. Improved fine-bred horses, cattle, sheep and swine, which have been imported from other countries, have given the live stock of this section a wide-spread reputation. For the past few years many of the linest horses in the State have been bred in this county. Dairying and the raising of time cattle are carried on to some extent, while sheep husbandry is quite an important industry. One husbandry is quite an important manacy. One of the growing industries of the county is the production of garden and other vegetables, melous and faults for the San Francisco markets. The allivial banks of the San Joaquin river are peculiarly favorable for this purpose, on account of of alluvial swamp and overflow lands, capable of reclamation and cultivation, and alreadly largely reclaimed.

Stockton

As we furnish our readers with a splendid bird's eye view of the city, we shall devote a large share of our article to the manufacturing and commercial interests of this, one of California's commercial Stockton is the county seat of San donquin county, and is located at the head of Stockton channel, on the line of the Central Pacific Rail-road, 91 miles from San Francisco by rail, and 117 iniles by water. This channel is a wide and deep arm of the Sun Joaquin river which is unvigable for vessels of 600 tons capacity. The city extends over an area of four square miles, and is laid out in regular blocks of 300 feet square. It was incor-porated in 1850. Its streets are wide, and the principal ones are macadamized; some of them lined with beautiful shade trees. The character of its buildings is generally very substantial and

good, the business portion being built almost enturely of brick. A system of street milrouds affords easy acrommodation fictured various parts of the city. Strekton is consuled to be the most important grain market of the Pucific Coast, out-sole of San Francisco. Her convenient location has been taken intvantage of by her enterprising who have established facilities for chenp and rapid handling, storage and brokerup of grain sneeperhol by any city on the Caust. The murchonson of Stockton are built of brick, and are mode fire-prind, the storage capacity being over 100.000 tons. 100,000 tons. The deep, navigable channel, radiating from the river to different points in the city, gire a convenient water front of many miles in ex tent, such as is not possessed elsewhere in the State. Substantial whereves have been built at public expense, having an aggregate length of nearly a mile, and, as the domands of traffic re they are constantly being extended. facilities for transportation, Stockton is mansually fortunate.

Radiate from this center in all directions, north, south, east, and west, connecting with the entire San Joaquin and Sacramento valleys, with the mountain country on the east, with San Francisco on the southwest, and with the Eastern States by both the Central and Southern Pacific Railroads

#### Culifornia Stenor Navigation Company

Is running a duily line of steamers between Stock ton and and San Francisco; besides these there are innumerable craft plying between here and the metropolis, carrying thousands of tons of grain to San Francisco, and returning with coal, lumber, and morchandise.

The public roads leading out of the city are being rapidly improved, and are generally in good condition, excepting in very rainy seasons. There are, however, four turnpikes leading in different directions, which have been gravelled and are kept in good conditiou, and afford pleasant drives at all seasons of the year, and another is projected which will undoubtedly be completed within the next six

#### Manufacturing.

The manufacturing industries of Stockton are second only to San Francisco, This being a central location, convenient to the great Mount Diublo coal fields, fuel may be delivered cheaply by water ommunication; in fact, the facilities for freighting fuel material of all kinds, either by mater or rail, are not excelled by any locality on the Chast. Stuckton has made rapid strides in her manufactur ing during the last five years.

#### Floor Mills

Nothing could better illustrate the steady and substantial growth of Stock ton's industries than the progress made in the production of flour. What patient industry and economical management can accomplish is signally shown in the grand results achieved by Messrs. Sperry & Co., proprietors of the Stack-ton City Mills. The first venture in grain-milling was a small barley mill,

conducted by the late Austin Sperry, and Mr. Baldwin, in 1852. This was before the adaptability of the soil and climate of the great valley of the San Josquin and adjacent foothills to the production of a superior quality of wheat was known, or even thought of. Little did the people, then eager in their search for gold, dream that in a few years later wheat would became the chief staple product of the country, or that the great wheat profucing sections of the world would suon find in Palifornia a competitor that would excite would and agitation in every grain center on the globs. The little harby mill of Sparry & Co. at first received its supply of grain from Chili, and subse quently small lots were received from Salinus, Martinez, and other points in the hay counties. In 1853 they concluded to enlarge the mill, and put in one can of stone for making flour. wheat ground by the company was altained from larged the mill to a copacity of 100 barrels of flour per day. Gradually onlarging their basiness, they creeted, in the fall of 1855, a brick warehouse adjoining the mill; the wardonse is still standing as a monument of their early enterprise, mill was again enfarged in 1856, at which time Mr Bublwin retiral, and Mosers, S. W. Sperry and Alexander Burkett heeman associated with Mr. Austin Sperry in the business. At that time the capacity of the mill was increased to 150 bur els of flour every 24 hours. During the same year the milf produced flour from the first wheat ob tained from San Josephia county, although most of the wheat med in the neill up to 1858 was brought from Martinoz, Napa, Salimos Svisno and Pata-

In 1866 the firm bought the property known as the Franklin Mill (the site upon which the present mill stands), which was theroughly remadeled and new machinery substituted for the old, and its capacity increased to 400 barrels of floar per day. The Franklia Mill was erected by Timothy Paige and others, and operated for a brief period, but through hick of experience in the business and

The connect the enterprise was a failure.

The connecty of the mill was increased from time to time until 1874, when the daily product was 500 barrels. In 1874 Alexander Burkett sold out his interest to Austin and S. W. Sperry, and oluring the same year the mill was again remod-eful; what is known as the "New Process of Milling," bring adopted, and the espacity of the mills increased to 600 barrels every 24 hours. In this way the mill was run up to April 21, 1882, when it was destrayed by fire, a columity which east a cloud of gloom and sidness over the entire community.

At this juncture white period clapsed before it was known what course S. W. Sperry, upon whom devolved the entire management of the fusiness intembed to pursue. The spirit of anxious inquiry throughout the entire city and county was set at rest by the unconnecment that the establishment was to be vebrilt upon an enlarged and innniveil plan. From the very outset of their career in Stockton, Messrs. Sperry & Co, had challenged men in all branches of lusiness to excel them in honorable dealing-had thrown down the guantlet to rivals in the production of flour of superior quality, and had shown plack and perseverance in brilling up an industry, which had grown not anly into a mewns of securing to themselves a pri-

hill in mortar and cement. The most scrutmizing supervision was exercised in the selection of the nnerations. provided with heavy iron doors, by which each de from the others in the event of fire. The cutire brick and corporate work was done by the day's work, under Mr. Speery's personal supervision

This is the largest and most complete flour mill on the Preific Coast. Its supposity is 1,000 harrels In point of solidity and strength it is safe to say that it is not surpussed by any mill structure in the United States. Neither passed in the quality of its productions. Noither is it sur-

The excellence of the flour is attested by the unular (femuul for it lioth at home and ubroud. Not alone is its unrits recognized throughout the extent of the Presific States and Territories, but its superiority has been admitted in the chief commercial emporiums east of the Rocky Mountains a vell as in Europe and Asia. It has already bond its way into the heart of the great Mississippi valley; has feel the hungry mouths of Great Brit ain and France, and it is seldour a steamer takes its departure from the Galilen Gate to the Flowery Kingdom without carrying we'ry more or less their from Stockton City Mills.

The capital invested is \$500,000; amount paid for grain, etc., \$370,000; average number of men employed, 45; amount paid for labor during the past year, \$16,000, and value of product during

building material, and none but the best used.

The stairway to all the flaces in the neill building is placed in the martheast rorner of the structure such a way as not to interfere with the milling The different departments we divided by strong walls, the passages through which are partment can he speculity and effectively nobited

flour. During the year the mills ground 2,300 tons of burley, 200 tons of corn, and 100 tons of Stockton Wheel Company.

The establishment is a very important addition to

ackton's milling mansery.

Lane's MHs.

Lane's flour mol fred mills, on Weber avenue.

vero established in 1864, by the present owner,

u ho has continuously operated them. The capital

hunds employed, ten. fast year the sum of \$9,30

was paid for labor, and the sum paid for gran during the same period amounted to \$145,000

The engine which propels the unchmery is La

manent institutions, and a ready market has al-

ways freen open for all the floor and lead that

t has been able to produce. The flour is used

Barley Mills

In 1881 Mesors, Cumpbell and Laug (the latters practical milber), established the Barley Mills on Hunter street. The capital invested is \$10,000

average number of hands employed, eight; amount

puid lister in 1882, \$2,650; value of poduct, \$20,000. The mills are operated by a 35 horse.

power strain oughe. The articles produced are

ground harley, corn, onts, corn meaf, and graham

The mill is one of Stockton's per-

invested is about \$50,000; and the average mand

Stockton's milling industry

Impacamivida

passed in sparity.

Amother important addition has been made to Stocktow's manufacturing industries. The Stock ton Wheel Company is owned and operated by Holt Brothers, 27 and 29 Beals street, and 30 and 32 Main street, San Francisco. They are importers of and wholesale dealers in all kinds of hardwood lumber, wagon and carriage material and hardware. The company purpose

manufacturing the genuine patent wheels (all sizes), wood bub wheels (from the lightest to the heariest), also bodies and gearing for all kinds of vehicles. They will keep on hand a general supply of material, and have now at the factory, and on the way, material for 6,000 sets of wheels, and 5,000 bedies and gearings. The building is light, airy and commodians, and is furnished with all the latest-improved machinery, which is phriven by a 40 hurse-power Corless engine They are determined to make the best goods in this line that can be obtained The body and gearing department is in rharge of one of the most thorough and competent body makers in the United States. Stockton was chosen for the erection of the factory on account of the dry, warm climate, and its central location. It is absolutely essential in making a wheel that will stand the hot raller of this State, that the stock is thoroughly sensonal before being used. No iron work wift be done at all, as has been supposed by many. Messrs. Holt Brehave invested here upwards of \$65,000, and expect to give constant employment to 30 or 40 men. The factory is in the hands of young, enterprising men, who never fail to cary through, successfully, whatever they undertake



STOCKTON CITY MILLS, SPERRY & CO., Proprietors.

vate fortune, but virtually partook of the charactor of a public benefaction in the way of providing the means of livelihood to many families, and greatly adding to the commerce and wealth of the city, and it can be readily understood that their conclusion to re-establish the mill upon as complets a plun as architectural and mechanical skill could devise and execute, was a cause of universal

The firm consists of S. W. Sperry and Mrs. Austin Sperry, willow of the late Austin Sperry, the former partner, whose interest she retains, W. Sperry, the chief spirit and manager, is sixted by two of his sans, George B, and Austin B. The Sun Francisco office is in charge of Mr. James Hogg and Mr. James W. Sperry, another son of S. W. Sperry.

The now mill stands on the site of the one re contly destroyed by fire, and is an imposing and substantial structure. It was erected at a cost of \$200,000. There is only the width of the street between it sail the water front, from which point there is unbrokun water communication with San Francisca. Transportation by callend can be laid to the north front of the building. The latter is divided into three departments the first the mill proper, which is 50x100 feet and live stories high; accomil contains the cleaning muchine and the packing room -40x100 feet and three stories high; packing runn—auxilia bet and three startes light; and the third the warehouse department—117x100 bet and two stories high. The foundation walls are hid upon a solid foundation of concrete two and a half feet thick. The walls of the main laubling are 30 inches think for a height of two stories, and drop off one brick in thickness for each of the action of the color of ack of the other three stories, and the bricks are

the same period, \$375,000. The engine by which the machinery is propelled is 450 horse power.

Crown Milling Company.

This company was organized in the summer of 1882, with a capital of \$300,000, divided into 3,000 shares of \$100 each. The directors are James M. Welsh, Robert Balfour, Robert Brues, Abraham Schwabzeher and Sigmund Schwabzeher. The company purchased a site for the mill close to the water front, on the south side of Stockton channel and on the west side of Tule street, granul covered by the building is 200x106 feat. The mill proper is 60x80 feet and five stories high. The engine ruom and the space for the beiler cupy 26x60 feet in the northwest corner. partment allutted to grain cleaning unchinery i 30x50 feat, and admining this is the making do partment, 30×56 feet. The latter departments are three stories high. A warehouse, two stories in height and 110×201 feet, adjoins the mill on the west side. The Stockton & Copperapolis Railrowl passes along the south side of the building, and on the north side a bulkhead and whirf hard loon constructed in the water front the entire brigth of the building Pfour can lin conveyed on slides direct from the proking department to stemmers or swilling craft on the north side, or to the railroad cars on the south side. A move eligible site for a flearing mill could not be obtained in the interior of California. The capacity of the mill is 1,000 harrels per day. The work of building has been forwarded with all possible expedition, and the whole has been under the supervision of James M. Welsh, Esq., one of the incorporators. The walls stand upon a concrete formulation, and the entire

superstructure is of the most substantial character.

#### Paper Manufactory.

The paper null, owned by the Califor ma Paper Company, in this city, was first run by R. B. Laud, in 1873. It was the first and still remains the only paper mill in this section of the State. The first cost, \$75,000, has since been doubled, and it is to day a flourishing institution The machinery, which was first operated at Lane flour and feed mill, on Weber avenue, was removed to a new building erected on the right bank of Mormon channel, especially for the manufacture of paper, in 1878, and the emptal now invested & \$150,000 The mill affords constant employment for 105 hands, and the sum of \$4,000 is pad monthly for images. During 1882, \$150,000 paid for raw material. The product consists of non-spaper, manilla, and strave arapping paper Several of the metropolitan pournals, and a number of the interior daily and neoddy newspapers of the Stato neo paper of Stockton manufacture alone. The oughners and in operating the machinery is 3a horse-power. The business of the California Paper Company is on a sampl basis, and the permanency of their manufactory assured.

The Paritie Tennery

Situated at the intersection of El formio and Oak streuts, (Kullmun, Wagner & Co., proprieters). was established in 1855, and has been nearly is constant operation since that time. The capital invested is \$160,000, and 50 mm is the average force employed. During 1882 the amount of money expended for mur uniterial reveloel the and of \$175,000. The articles produced rounds chiefly of sole-lenther, harness louther, skirting, collarloather, kips, eath-skins, and almu-heather, engine most out the premises is 25 herself Like other labor institutions established in early theys, the Pacific Tantory has not book event from calumities. It has been three times burned

thown, the last misfortime occurring in 1874. Immediately succeeding each disaster it was rebuilt in better shape than before, and nor the building stands a credit to the indomitable perseverance and enterprising spirit of its owners. The market for the product of the institution extends through out California, Oregon, Washington Territory, Utah, Texas, and Missonn. Were the product ten times the present amount, the firm would find a ready sale for it all,

#### Stockton Woolen Mills.

In 1870 Messrs, Landbert, Doughty & Tutters invested about \$30,000 in the creetion of a wooden mill on the south bank of Mornion channel. The null began operations in October of that year, and during 1871, with only one set of machinery, there were manufactured 6,000 pairs of blankets of superior quality. In September, 1871, the capacity mill was doubled, and subsequently the products per week unnounted to 152 pairs of blankets, and 1,700 yards of flaunch. The mill again enlarged, and is now what is known as a "two set" mill, with 800 spindles. It is now owned by William Doughty, of San Francisco, and is under the personal management of James Tutterson, a practical and skilled manufacturer of large experience. The capital now invested is \$50,000, and the sum paid for wood in ISS2 amounted to \$32,000. The amount paid for labor was \$12,000, and the value of the product \$150,000. During the year there were 7,000 pairs of blankets and 105,000 yards of flannel manufactured, owner contemplates a further enlargement of the capacity of the mill at an early date, when he proposes to keep the machinery in continual opera- 000, tien, day and night. The goods produced are shipped in bulk to San Francisco, and then rapid rise in popular favor attests the excellence of their quality,

#### Agricultural Machine Shops,

The manufacture of agricultural implements gives employment to a la unpiller of mechanics. Stockton takes the lead on this Coast in this industry. There are five firms engaged in the mar ufacture of agricultural implements, such as combined headers and thrashers, plows of every description, derricks, forks,

Matteson & Williamson's Works are the most extensive, they having been established in 1852, when Stockton more village of tents. These gentlemen now have a fine, three-story brick block, 75x100 feet, with a basement on Mam street, where they are manufacturing their "Stockton Chief' Header and their celebrated Stockton Reversible Plow. which is now so extensively used all over the Sacramento and San Joaquin valleys Besides these they manufacture an end variety of other plows, cultivators, steel road scrapers, ware-bouse trucks, derricks, forks, ctc. They have a foundry, down by the railread, where they make all their own castings. Taken altogether, these are among the most complete agricultural works on the

#### Globe Iran Warks.

John Cane's Globe Iron Works, at the upper end of Main street, near the steamboat landing, is also an old-established house, having been constantly engaged in the manufacture of iron and brass castings of every kind, steamboat, mill, mining, and agricultural machinery since 1856. Mr. Cane has recently opened an agricultural store on El Dorado street, where he has a large assortment of gang plows, single and double plows, wagons, and agricultural implements of every description. He is giving constant employment to from 35 to 40 mechanics.

#### The Stockton Iron Works,

fif Farrington, Hyatt & Co., on California street, are largely engaged in architectural work for buildings, stationary and marine engines, agricul-tural implements, etc. They have an extra fine lot of patterns for light pullies, hangers, shufting, They give employment to from fifteen to fifty hands.

Established some twenty years ago, are making a specialty of their Stockton Gang Plow, of which there are now over 3,000 in use in California. They also have the First & Bradley slip shear gang plows, and the Handolph headers, sulky and single idows, salky horse rakes, mowers, reapers, helt-ings, and, in fact, everything in this line that can be found in a first-chool agricultural store. This establishment is located on El Dorado street, neur

The agricultural works of George Lissenden, who has been established since 1875, are manufac turing plows, harrows, wagon-beds, road scrapers, and agricultural implements of various kinds.

men seld ten machines last year, which all give good satisfaction, and this year is manufacturing them more extensively. New, large and commodious buildings have been built, on Center and Senora streets, where the machine is being manufactured for the trade, The following are among so the proofs of the work of this new labor-saving

machine:

Ma Daniel Hausen,

Stockhou, Cal.

Page 86: The combined header and thrusher we hought of The combined header and thrusher we hought of The combined to the multipay thrushine of the multipay thrushine seeing grain and a provent in the multipay thrushing grain and much early hand or fit or of this hirvestersuch le our experience. We cut Joshi serve in dialayse, making 19-20s sacks, the mast and in horse or updaid. We cut and thrashed some burley that made 70 bushols per acre. We would not be without machine for \$10,000—if we could not go a mether to the first three chine for \$10,000—if we could not go a mether to the first three servers.

Yours Truly, P well & Johnson.

TURLOCK, STANISLAUR CO., CAM.
January 21st, 1882.

Min, Daniel Hodge,

Dear Str. We kton, Cal.

Dear Str. We kton, Cal.

Dear Str. We kindlikt and used once of your combined headers and tiresthers last season, and we are tree to admit that a machine could equal it in securing our harvest. Commented 1,800 acres of grain in 60 days, at a cost of 75 cents per acre, also with these westernesses of the condition of

#### Grauger's Union.

The Granger's Union of San Joaquin valley was established in 1874, with its headquarters in Stockion. The capital invested is \$80,000, Daring 1882 there were eight hands employed and the sum \$9,000 was paid for labor. The amount paid for merchandise, fluring the year, was \$75,000, and the sales during the same period aggregated \$100, The Union deals in builders' tardware, sgricultural implements, wagons, buggics, coal, iron

ot mechanics employed, and their work is giving The business has paul during the year, and the the very best salufaction.

sre several other firms engaged in this branch of business, and the product of the carriage and wagon manufacturers of Stocking finds a rendy sale wherever its excellent obstactor is known.

J. T. Eickinhetham is an importer and dealer in all kinds of carriage material, oah, ash, and hickory wegon lumber, and carriage hardware gonerally.

#### Planing Mills -Sush, Duor, and Blind Factories.

The business of manufacturing mouldings, so lies, blinds, and doors, and the dressing of all kinds of lumber for building purposes, fa followed by twice firms in Stocklon. Steam-power is employed in each. In this industry 39 hands are curpleyed, and the capital invested is about \$40,000. About \$50, 000 was paid for the material used in the two pulls in 1882, and the value of the product was \$99,000, The wages paid for labor aggregate \$25,000. The business is rapidly nucreasing, and the firms en-gaged in this industry take a very oncouraging view of the ontlock. The engine used to propel the machinery, in one mill, is 45-horse power, and that in the other is 40 horse power. The demand for prepared material for new farm dwellings throughout San Joaquin and neighboring counties has kept both establishments running, to their utmost capacity, during the past two summers, and although there is quite a falling off in the demand for rustic, thorring, ceiling, planed material and scroll work for mochanical use during the winter menths, yet there is sufficient to keep the mills in operation most of the time.

White & Thomas, proprietors of the longest-established mill, have an extensive trade throughout the surrounding country, and some of the products

prospects are emostaging for an increasing trade

In 1878 Messre, Nash, Wright & Co. commenced the manufacture of wheat-cleaners, barley-crushers and grain elevators. They have \$20,000 invested business.

T. O. Humphrey manufactures drapers, for headers and thrashing machines, and employs several men during the season.

#### Brownship

There are two loweries in this city, producing from 5 mm to 10,000 lorrels of beer annually-the San Juaquin, Yost & Worth proprietors and the El Darsola, owned by D. Rathenland

Southlery and Burness.

There are nine harness manufacturing establishments in Stockton, the aggregate capital invested being \$70,000. The wages paid by these establish ments last year came within a fraction of \$40 000, thirly men being employed in the business. The smount paid for material aggregated \$68,000. H. T. Durrance's saddlery and learness shop was eslablished in 1852, and that of Dan Rtordan, successor to Thomas Cunningham, was coinhibited the same year. Thise are the two oldest in the city J. H. Andrews & Son have also been in the business many years, said have a large and censiantly increasing trade. This firm makes a specialty of manufacturing collars which are in great demand. The annual sales include many articles not manufacilized by the firms, and line whole for the last year aggregated ahoni \$100,000. The largest snm said by any firm for row contertal was \$30,875, by Mr. Dorranco, who employed twolve men, and paid nearly \$8,000 for labor. The frade in these goods extends all over the Pacific Coast, into Arizona
Ulah and New Mexico.

#### Bonts and Shoes,

The annual manufacture of bools and shors will prohably not exped an aggregate value of \$25,000. This, does not, by any means, melude the entire boot-and-shoe trude, as there are five firms exclusively engaged to the business ose trade extends all over the central portion of the State.

#### Manufacture of Tinware.

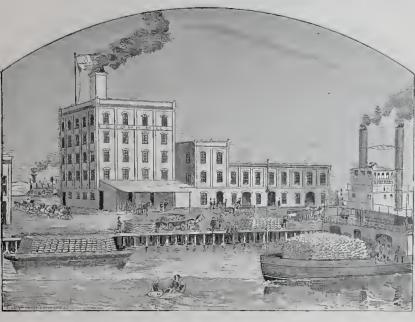
In this industry there are about the housiry there are about so men constantly employed, and about \$70,000 invested. There are five firms in the business, viz.; John Jackson, Fred A. Ruhl, James T. Mills, Rabert Rowe, and the Westlake Stove Company, C. M Jackson manager. The wages paid in 1882 aggregated about \$36,000, and the sale of home-minufactured articles closely ap-proximated \$150,000. The business embraces the manufacture of pumps galvan-ized iron, sheel iron, zinc, lead and brass The demand for the product this industry was unusually active in

The total manufactured product of the enly of Stockton for the year 1982, as taken from Major N. M Orr, Secretary of the Stockton Board of Trade, (whose repert we largely draw from), amounted to \$3,175,-009, which will be largely angmented the coming year, as the new mills will be in full running. The itemized value of manufactured products is about as fol-



Grain Trade.
One of the leading industries of Stocklen is the grain trade, which amounts to over 100,000 tons anmually.

The present magnitude of the trade has nel, however, heen secured without encountering sharp competition, and, if Stocklon continues to hold ber position as the most important export market in be interior of the State, it will only be because her citizens are fully aware of the importance of that trade, and are willing to work together for its preservation. The time is past when the location of this city will be sufficient to bring husiness to its offizens without the exercise of intelligent effort upon their part to compete with those who, by means of railroad connections, are placed in communication with those customers of Stocklon who farmerly were obliged to come here, or pass through here, for the transaction of their business. While railroads are generally conceded to be monopelies in the bustness of Iransportation, they are not likely



#### CROWN MILLS, STOCKTON, CAL., WELSH & CO., Proprietors.

and sicel. The husiness of the corporation has l varied from \$75,000 to \$225,000 per annum, and is under the supervision of the following named gen-Hemen who corstilute the Board of Directors: An drew Wolf, Ezra Fiske, W. D. Ashley, H. W. Cowell, W. L. Overhiser, B. F. Langford, Jame Marsh, Charles Grave and John N. Woods, H. S. Saigent and W. T. Smith are the managers.

#### Carriage and Wagan Works

Of Stockton are shead of any city on the Coast, outside of San Francisco. M. P. Henderson, who has been establish here since 1869, has a three-story brick block on Main street, where he is giving omployment to a large number of mechanics, building stage-coaches, carriages, of every kind and atylo. His extensive establishment covers five lots.

W. P. Miller has a similar establishment on the corner of California and Channel streets. Mr. Miller has been here in this business since 1853, and has now a trade extending from Oregon to Mexico, and to the Islands, Arizona and Utah. Hts stageconches, carriages and freight wagons are known all over the Const as the best in use. Mr. Miller is extending his business by adding another brick building to his large establishment.

Joseph Hansel's carriage and wagon works, on Hunter street near Miner's avenue, are also quite extensive. Mr. Hanset has been in the business extensive. Mr. Hannet has been in the business since 1852, and is the patentee of Hannel's buggy springs, which are acknowledged to be the neatest and most durable aprlug now in use, and are en-tirely different frem the cliptic spring, so common

Daniel Houser's Combined Header and Lancell & Sceber, two enterprising young men, Lancell & Sceber, two enterprising young men, have recently engaged to the manufacture of carrillo 40 acres of grain in a single day. This gentle-

or their mill have been used in the completion of most of the best buildings in Stockton, as well as the other leading lowns of the San Jesquin valley.

Manufacture of Furniture.

Stockton has two extensive manufactories of furniture, where a good variety of articles in that line are produced. The Stockton Finuiture Company, now operated by Dosne & Logan, commenced business in 1874, and have manufactured a large amount of furniture of almost every kind.

These establishments produce elegant sets from mabogany, resewood, walnut, laurel, etc., but make the various articles from pine and other Callifernia lumber to meet the general demand. Easton and Messra, Kennelly & Miller make uphelstering a special branch of their business. gregate capital employed in the entire business is not less than \$80,000; amount paid for material, \$45,000; and for labor, \$50,000. The sales of furniture, during 1892, aggregated over \$300,000.

#### Windmills, Tanks, Stc.

The capital invested in these mechanical indus-tries is about \$30,000. Twenty-four men are employed, and the wages paid during 1882 aggregated \$40,000; \$75,000 is an approximate estimate of the value of the products. There are six firms cu-gaged in the business-Smith & Wilson, successors to J. S. Davis; Abbult, Williams & Stowell, E. J. Marsters, C. M. Small and two smaller establish-Smith & Wilson confine themselves to the vindmill husiness exclusively, white Abbutt, William & Stowell manufacture tauka as well as windmills. E. J. Matsters manufactures land-reliers, acif-feeders, elevators, dorrichs, nets, tanks and troughs, and is now putting in a twenty-horse-power cugine, planes, saws and other machinery to meet the domands of his business. O. M. Small constructs what is known as the "Star Wind mill."

ness in the purchase and sale of the varied farm products of the autrounding country, but those sitantsgre will be ensily overcome by the adaption. cu the part of her ettizens and city officers, of narrow-minded, suiridal policy which will virtually tax that business merely because of the loration of the city upon a navigable channel leading to Sau Francisco

The wheat trade of Stockton, which first became an important factor in promoting the city's pros-perity in 1868, bas of course fluctuated as the production has varied by the effects of drouth and infavorable seasons, yet for every prosperous year for the farmer for a period of fifteen years past, the receiving and handling of the crops of the surrounding country has beou the most important business of the city. The receipts and shipments of wheat have varied from 100,000 to 200,000 tons, and from the fact that this large amount of grain during the sesson, been here sold and the money therefor put in circulation, an impetus has been given to other branches of business which has been of incelculable advantage to all classes of citizens, and important aid to the growth and prosperty of the city. The storage capacity afforded by about 113,000 tons, as follows:

Farmers' Co-operative Union....
Miller's Warehouse,
Stockton Warehouse,
Bagg's Warehouse
Sperry's Warehouse
Muscellancous...

The location of the warehouses, alongside navgable channels enables the wheat to be moved at any time during the year when the price is satisfactory to the seller. The rates of atorage, one dollar ton for the season, are very reasonable, and it it is a noticeable fact that on account of

the amount of wheat attainable, and the critical observations made by the local dealers, a better price has been here obtained for that product during a period of ten years than could have been obtained at other points in the State to which this taple article has been shipped by the farmers

Should the completion of the Southern Pacific Railroad from this Coast to sea-ports on the Ouif of Mexico open a competing line for the transportation of wheat to the great markets of Europe, as is promised, and to a certain extent pected, Stockton will occupy a still more favorable position for the transaction of business than she has heretofore done. She will have the advantage of minal station for exportation, and also one nearest to the Eastern terminus of road upon the Gulf of Mexico. with wheat at the warehonses of Stockton would be shipped to New Orleans, or other Eastern markets, at minimnm prices, and there is good reason for believing that eventually a considerable portion of the wheat produced in this region of country will find a market either in its normal state or as flour man-ufactured at the Stockton mills, in the market that must be established at New Orleans, or some other point accessible upon the Gulf of Mexico, from which wheat and flonr will be furnished to supply the bread-purchasing States of the southern portion of the Union and Europe, The total receipts in Stockton of the

crop of 1882 were 100,732 tons. The erop was not large in 1882 as it has been in previous years, and the competition among dealers and warehouse men was greater than ever before. Stockton, however, received her full proportion of the business, The prices have also been more satisfactory to the producer than in some former years, and more has consequently been sold.

The principal dealers in grain at the present time re J. D. Peters, Stewart & Smith, I. S. Bostwick Geo. Hart, H. E. Wright, Sperry & Oo., R. B. Lane, the Stockton Milling Co., the Farmers' Oo operative Union, and the Stockton Warehouse

The Lumber Trade.

The lumber trade in the agricultural portions of the San Joaquin valley is great, and although there are fine forests of plue, fir, sprnce, cedar, etc., in the Sierra Nevada range bordering the valley apout the east, facilities for transporting immber from the mountain regions to the valier have not vot been provided, and consequently the larger portion of the anpply for the valley towns is brought to Stockton by water from the northern coast counties of California, and from Puget Sound. The average sales of lumber lu this elty run from 25,000,000 to 5,000,000 feet per annum, it being shipped from this city by rail to all portions of the valley. The total lumber trade will amount to over \$500,000 per annum, A number of sailing vessels and harges are constantly employed in bringing lumber to this city from San Francisco.

Two firms, Simpson & Oray and Munre & Smith, are engaged in the business, and both have large yards and carry extensive stocks of all kinds inmier necessary to ampuly the extensive trade.

Fruit, Vegetables and Farm Produce, While there is much land in the violalty of Stockton well adupted to the production of fruit, less attention is paul to that industry than in some other portions of the State. The market for fruit has been precarims, and only since the establishment of cannornes for working up the surplus product of the orchards tas there been any special cu conregement for the farmer to devote to fruit raising land which would be profitable it cultivated in Large quantities of fruit are, however, received here, and considerable exported to San Francisco. The shipments of various kinds of fruits from Stockton to that market, for 1882, aggregated about 800 tons, valued at \$30,000. Shipments were also made at choice pears, apricots and table grapes to Eastern markots.

Large quantities of vegetables are raised in the vicinity of Sinckton, upon the reclaimed tule lands bordering the San Joaquin river, and over 7,000 tons of the products of the gardens in these localitirs were, last year, shipped to supply the San Francisco nurket.

This trade has increased very rapidly during the last few years, and as the population of the State increases and the demand for products of the soil of this obstacter is increased, the area of land brought under a system of thorough cultivation in this locality will be greatly enlarged. It is already apparent that land adapted to the production of fruit, grapes, vegetables, etc., can be much better employed than in the culture of cerest crops, and consequently the large tracts now used almost explusively for wheat will soon be devoted to other purposes which will afford employment to a large number of persons and yield prafits in proportion to the labor bestowed, as corrainly as it ilors as now cultivated and managed. The leading dealers in fruit, vegetables und farm products are C. V. Thompson, B. H. Brown, V. Galgiani and Elliott & Beighle,

and the cirris all busy. White we were at San Jose, the criticens and capitaltels were devising wave means of establishing various manufacturing enterprises in their midst, and we saw Mr. M. Hale. the lather, one of the most active men in the enterprise. Mr. Hale is a untive of the State of Vermont. O. A. and J. M., the two older brothers, were born in New York, and the younger brothers in the State of Michigan. Their trade this year will aggregate half a million dollars

#### Edward Hickory

Has been in this business in this city for man years, and has a large, commediens, and well irranged store, with entrances upon both Malu and Hanter streets. His building is two stories in beight, and both floors are accupted. W. J. Behling, Geo. Chalmers, and Alex. Chalmers, besides everal others, have fine stores, and carry large stocks of merchandise in their line.

Rosenbaum & Crawford, lending dealers in gents' clothing and furnishing goods, carry a very large stock, and have scoured an extensive trade throughout the whole region of country tributary to Stock ton; there are several other houses doing a jarge business in this same line.

The aggregate sales of the desiers in dry goods, clothing, carpets, etc., in this city, will amount to \$550,000 annually.

#### Greceries and Provistous,

Although there are no honses in this cityongaged in an exclusive jobbing trails in groceries and provisinus, there are several honors which have an extrade with interior dealers who are supplied upon as favorable terms as they could obtain from San Francisco jobbers. There are unmerous dealers in this line of goods, of which the

Patals, OH, Glass, Wall Paper, Etc. There are two firms who make dealings in the almve mentlimed gonds a speciatty,

Banger Bros, also keep a large stock of page hangings, etc.

Southeld & Trevis, agents for the Continental Or Company, have during the last season, erected Company, have during the lost station, ercord tharge building, and theat extensively in known and other kinds of oils. Their establishmen in the aml other kunwin bins. In it communication in the deput for supplies for the surrounding contra and they ship large quantilies by rail to the var towns of the San Josephin with y,

#### Banklag.

Storkton has always been a profitable point log the use of money. The development of the sind resources of the San Jusquin valley has not been carried out to the extent thus far attained wildog the use of large amounts of capital, and quently the business of banking and losning of money has been profitable.

At present there are five banks in Stockton with an aggregate capital of \$1,132,150 and amounting to \$4,371,886.13. As we published a flicial bank directory, containing all the broker houses in the State, in the January number of THE RESOURCES (which will be corrected every in months), giving full detailed accounts of all to banks in the State, we reier our readers to and directory,

#### Stockton Business College,

Which was established several years  $ag_0$ , he curried a reputation imparalleled by any college  $c_0$ Here is taught a full business com just what any young man or young lady must have, if they want to succeed in business fessor F. R. Clark, the Principal, deserves crols

for the way he has built up the reputs tion of this place of learning. The Stelton Business Callege Journal is published by this gentleman. The Journal will be sent on application, and give all desired information in regard to how to get a good, business education, at a small

The Academy of St. Agnes, direction of the Dominican Sisters, is at uld established school, and is well parmeized from the different parts of the State

#### Newspapers.

Stockton has three daily newspapers, the Independent, a morning paper, with a semi-weekly edition; the Herald, a morning paper, with a weekly edition; the Med, in evening paper, with a weekly edition,

The Independent is the oldest paper pub lished in the city, having been established in 1861. It is Bepublican in polines, and has a general circulation throughout the and surrounding country. Brunton & Phelps are its present publishers.

The Herald, until lately issued as an evening paper, was established to last and is now, and generally has been to advocate of Democratic principles. change to a morning paper has increased the circulation ami sphere of usefulne Herald is published by Preston & Rogglet

The Mart was established in 1880, and received a liberal patronage from the mmencement of its career. dependent in politics. Its publishers are Colnon, Cosgrove & Nunan.

All these journals give their reader circulated throughout the San Joaquin valley.

Ari Gulteries. Stockton has some of the fluest art and photograph galleries of any place on the Pacific Could J. Pitcher Spooner, the heading artist, has taken to great suferest in showing Stockton to the world; b has kindly donated \$300 worth of photographing to varils scouring our bird's eve of the city, and to Mr. Spoouer belongs the credit of securing the

Mr. B. P. Batchelder, another of Stockton's first class artists, has the regulation of doing fine work Thore are a few others, of the profession, to the city.

#### Recapitulation

Bestles the various lines of business beretoler mentioned which are carried on in this city, there are thins who ifeal especially in articles in merated above. Messas, Hart & Turift and Hammond, Mindre & Yaritly, besides their trade in green

eries, deal extensively in Inne, plaster, etc.
Brick, to supply the demands of the city and sar rounding country, no manufactured in this vision it, and large quantities are also shipped from the brickvards of this county to San Francisco.

A to m pin and his of or

Brm has an extensive trade in hard-and lumber, wagon and carriage material, while there are several thrms theing an extensive trade to sop plying the city and surrounding country with irre-Two firms, L. Gortneli & Co., and Greek Griswood, shangliter termity beaves and diffy shall per day.

An extensive luislness is also than in this city in the percusse of poultry and eggs for shipment the Sun Francisco market. Peter Muste, an executive dealer in graceries, in a leading design in the above months of articles, and makes shipments of Ban Francisco almost daily.



#### HOLT BROS, WHEEL FACTORY, STOCKTON, CAL.

#### Commercial House

Commercially, Stockton is well supplied with dry goods, elothing, hardware, grocery, jewelry and, in fact, all classes of atores. There are, perbaps, more goods sold in the City of Stockton than any city in the State, ontside of San Francisco. And, by referring to the different commercial geneirs, we find less failures reported than at any place on the coast; thus showing the healthy state of finances of this valley. Owing to the superior facilities afforded oustomers to choose fro and complete assortment of goods kept on hand, the trade, in all its different brauches, or tends throughout the surrounding country for a long distance, the inhabitants finding it to their interest to obtain all their supplies from here, Among the leading houses, in the various branches we mention the following:

Rate Brothers & Co. Consist of five brothers and a father. They own five stores, all in Central California, located at Sacramento, Stockton, Sallnas Oity, San Jose, and Petalums. Their first store was established in Jose, ln 1876, and the other four in '78-9. Having personally visited all of their stores, and having a Having thorough knowledge of the mercantile business, we became acquinted with several members of the They buy and soli directly for oash. One or two of the brothers are Esat, and do the buying Their goods are bought directly from the manufacthus saving the jubbers' commissions. They buy for cash, and cash in California means 30 days. They pay down, thus saving trom five to ien per cent. Then, they have such an extensive conntry to supply that they usually take the onlire but of a certain line of goods, making another discount, Anyone viatting either of their sinres will see all new goods, the one price marked in plain figures,

at prominent are Southworth & Grattan, Hedges & Buck, Hammond, Moore and Yardley, R. B. Parker & Son, L. Hansel, H. O. Bojsselter, and Chrelint & Morre, The aggregate sales of the various lumines will aggregate \$1,225,000 annually.

Hardware, Iron, Ele. Austin Bros, recently built a fine brick building (100x148 hrt) at the corner of Matu and American streels, where they have the largest stock of hard-

ware, from steel, etc., in the valley.

J. H. Onnilit & Co. have a similar establishment, and are having an extensive trade in the Ollive Chilled Phow and other agricultural implements, and hardware of all kinds.

W. A. Dorr, agent for Hawley Bros., has an agricultural warehouse, where all the different kinds of farming implements are sold.

John Jarkson, on Main street, keeps a large stock nf all classes of hardware, Jackson's patent pumps gas, water and steam fittings The Wort Lake Stove Company have the largest

stock of stoves, tin, copper and sheet fron, etc., in the city.

Ruhl, nn iInnter street, deals extensively in Ruhl's patent lift pumps, stoves, tin and cop-per ware, phio, etc.

Bally, Bulgley & Co., Importers of agrimitural Implements, builders and curpenters' tools, are doing an extensive business in their line

Drugs, Medicines, Lie.
There are seven drug stores in the city, some of which are expensively and elegantly fitted up and

H. H. Monre & Sou, a leading firm, are manufacturers at proprietary articles, which business is combined in connection with their regular trade in drugs, I. D. Hulden, J. R. Williams, W. M. Hlokinian and Win. M. McCurily, each have flur stores and have a good trade.

Two firms are engaged in supplying the people of the city with ico, which is obtained from the Sierras, and sold at very reasonable rates.

The aggregate business of the city for the year 1882, exclusive of banking, insurance, real estate, etc., will excecil \$13,000,000.

The total trade of Stuckton for 1882, in the various branches of business, here conducted, was

Windl up tottoget	
Wheat	3,500,000
Wool	175 000
Hops	150,000
Hides	40 000
Groceries 1	1 225 000
Agricultural Implements	475 000
Liquors	150 COO
Fruit and Vegetables	250,000
Hav, Darr Products, etc	150,000
Boots and Shoes	75,000
Jownlery	50,000
Lumber	500 000
Hard-wood lumber, etc	75 000
Dry goods and Clothing	550,000
Drugs and Medicines	50,000
Books, Stationery, etc	50,000
Wood and Coal	120,000
Steves and House Farnishing goods	200,000
Crockery and Glassmure	75.000
Paints, Oils, etc	200,000
Farmture, Bedding, etc	150,000
Millinery Goods	50 000
Tobacco, Cigara, etc	100,000
Variety Stores	100,000
Lime, Cement, etc	50,000
Proch Monte	1245 Stone

Poultry, Eggs, etc.

Road Estate
In San Joaquin county is rapidly advancing in price Having visited this place for several years in and cession, we see a marked change. There a number of reliable real estate dealers in Stockton who gave us their opinions in regard to the lands of this county. We will name the following gentlemen, who may be relied upon: John Tully, Alonzo Rhodea, James M. McCarthy, James E. Morrissey. E. C. Arnold, and R. E. Wilholt, a searcher of records. A number of these gentlemen buy and all larming lands. They estimate the price of land fully ten per cent, bigher than it was one year ago, ranging in price from \$25 to \$150 per acre, cording to location and improvements.

City Lats.

The price of city lots has materially advanced during the last three years, and now range from \$150 in the outer limits of the city to \$1,000 in the more central locations. L. M. Cutting, agent for the Weber estate, and also general dealer in real estate, has, during the last two years, done an extensive business in the sale of city properly, and in that time many vacant lots have been purchased and improved by the erection of fine buildings

#### Hotels.

Stockton is amply supplied with hotel accommo-The Yo Semite, kept by James Covin, is the first-class house

The Commercial, the popular hotel of Stockton, is considered the best second-class house on the coast. It is kept by A. J. & J. E. Hahn, and is located on Main and California streets, in the business center of the cuv.

The Central is kept by John Henderson. All these houses run busses to all trains and boats.

Besides the above there are a number of less pretentions hotels, such as the San Joaquin, opposite Conri Honse, kept by F. Stoetzer, the What Cheer the United States, and several others. There are several first-class restaurants and numerous hearding and lodging houses, where good accommodalions can be obtained at reasonable rates.

#### New Buildings.

During the year 1882 160 dwellings were ereoled in the city limits, ranging in cost from \$800 to \$8,000. Most of these houses were erected by persons who intend to occupy them and make this city their permanent residence, and the larger portion cost from \$1,500 to \$2,000. It the year several large huldings for During ness purposes were erected, and the aggregate cost of all the new huildings and improvements com-pleted during the past year will exceed \$600,000.

Several large huildings are projected for 1883, and numerons dwellings are to be constructed, and the prospect is good that the improvements in this direction will be as great for 1883 as for the previous

#### Papadation.

Stockton had a population of 10,287 in 1880, as shown by the U. S. census. The enumeration was, however, made at the season when a large number of the usual residents were attending to mining and agricultural nursnite in the surrounding country. A rapid growth has been made here during the last two years, and the total population for the winter months is estimated at short 15,000 within the corporate limits, while the county immediately ad jarent to this city is becoming thickly populated, and units southerly honorary, especially, the land has been laid out in blocks, in conformity with the city survey, and a good many dwellings bave been erested thereon during the had three years.

#### The Probable Fature of Slackton.

From the facts heretofore given, it will be apparant, even to the casual reader, that Buckton is at present a presperous and growing city, and that its future prospects are promising, as is shown by the almost unlimited resources of the immense area of country which surrounds it, of which the city is naturally the business center. The next largest take freight from here to San Francisco. This is town in the county is the village of one of the aldest places in the county. It counts in Loat

Which lies twelve miles north from Stockion. This place has spring into existence since the construc-tion of the Central Pacific Railroad, and it is now a beautiful village of 1,000 inhabitum's. Its citizens have exhibited a de, ree of enterprise quite surprising, to make it the busicst village of the interior. Lodd built 25 new huildings in 1982, all of a numb helter class than those huilt herotolore. Green Brothers, increhants, have built a fine brick store and three new residences. A fine brick flouring mill was built in 1876, with five run of stone, which is one of the main features of the town. Lodi is situated in one of the finest wheat sections in the State, at the junction of the Gentral Pacitic and the San Joaquin & Sierra (Narrow-Gauge) Railroads. The town is beautifully althated on either aide

one of the oldest places in the county. It contains a number of fine buildings and a flouring mill. A fluo brick Masonic huilding jbuilt by N. A. Comstock, of Lodi), has recently been completed. H. Plummer keeps the Plummer House, the only hotel in the town. There are several extensive carriage and wagon shops. Dr. H. Bentley has an extensive store of general merchandise. Rutledge & McLarran also have quite a large stock of goods. such as are usually kept in a country store. In this vicinity is excellent farming land, held at comparatively high prices.

Eight miles northeast from Lodi, up on the high banks of the Mokelumne river, on the line of the S. J. & S. R. R., brings us to the village of

#### Lockford.

Which lies in the center of a fine farming commu-nity. Lockford is more thriving now than for



NEW MASONIC TEMPLE, Stockton, California.

of the rathroad, and it is laid out with wide streets. many of them handsomely shaded. The soil in this vicinity is a fine, andy loam, well adspited for tree a.

Land in the vicinity of Lodi could be hought 1870 at from six to seu dollars per acra, and to-day it brings from \$75 to \$90 per acre. Ledi has uo poor country around it.

The Weekly Valley Review, established some fivo years ago is published every Tuesday by Gertie de Force Cluff. The other is the Lodi Sentinel, which is issued every baturday by Ellis & McQuard. It was established last year, and now has a wide circulation in this part of the valley. many years past. It contains a population of 450, There are two general atores, and several carriage and wagon shops.

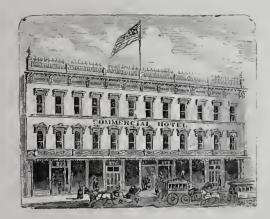
R. L. Paiton has recently built and furnished a

fine, new, two-story horel, the Live Oak. Another new hotel is kept by R. Coon.

Land in this vicinity to valued at from \$30 to \$150 per acre.

Twelve miles east of Stockten ive come to the village of

Linden,
Which is surrounded by the richest farming lands in the county. This section is beautified by scat-



COMMERCIAL ROTEL, STOCKTON, CAL.

N. A. Comstock, an architect and builder, erected | a number of new hulldings in and around Lodi within the past year, many of which are fine farm residences, which to sufficient evidence of the prosperity of the place.

T. A. Wilson keeps the Sargent House, a firstclass holel, immediately opposite the railroad depot.
The Orangers' Business Association of Lodi has a

stock of general merchandise. C. O. Ivery and Green Brothers are the leading

merchants in the place.
T. Stoddard has a full supply of immber and all chases of building material constantly on hand. Two and one-half inites northwest from Ladi ls the third town in the county, that of

Whosteridge, Beaulifully situated on the banks of the Mekelumue river, and on the line of the B. J. & S. R. R. The provided in the control of the Control and Sonthern Pacitic Reliver is navigable to within three miles of the photosis. It contains a splendth hotel, where all trains atop, allowing the passengers 25 minutes for

tered oak trees, giving the hindscape the appearance of an old English park. The town contains about 150 Inhabitants. The surrounding country is considered the finest wheat-producing section or the county. Land is valued at from \$50 to \$80 per

Sixteen miles from Stockton, on the line of the Stockton and Copperopolis Bailroad, brings us to the village of

Farmington

Which is surrounded by a rich farming country The larmers in the vicinity are nearly all engaged in raising wheat. The town contains about 200 people, has two general stores, a good school, and is a large grein shipping point. Ten miles south from Stockton brings us to

Latherup,
The junction of the Central and Southern Pacific

refreshments. This honse changed bands, about one year ago, and its now kept by Stackpole & Lin-coln, who keep the best eating house on the read. The lown contains about 300 people, who are all directly and indirectly connected with the railroad. About fifteen miles southeast of Lathrop we come to the village of

#### Tracy.

This place is some eight miles from the Alameda county line, and is the junction of the Central and San Pablo and Tulare division of the Southern Pacific Rallroad, 82 miles distant from San Francieco, via the new road, and 71 via Livermore. The town contains about 100 people, and has two hotels: The San Josquin, kept by C. Lindwig, and Tracy House, presided over by E. Wacsmolb. The town has two general stores. cinity is of a light soil, and is valued at from \$5 to \$10 per acre. Very little rain falls in this vicinity, for some reason, and no water can be had for irrigation, unless at great expense,

The other towns of the county are: which contains about 50 inhabituits; French Camp, 75; Atlanta, 50; Acampo, 75 to 100; Bantas, 100; Bellota, 50; Collegiville, 50; Elliott, 50; Petera, 10.

#### MINING PROSPECTS.

Never in the history of our county have the mining prospects been so bright as they are to-day. Hundreds of new locations have been made during the past year, and hundreds more will be made in the future. The quartz interest is in its infancy, and we believe the day is not far distant when we shall see a great many mines in this vicinity which will equal the celebrated Providence, Merrifield, Wyoming, Nevada City and other large mines which are now paying bandsome dividends to their The ontlook in the adjoining district is equally good as is evidenced by the preparations that are being made. The Tidings speaking of this subject says: There is the expectation that there will be more activity in quartz mining in this district the coming summer than there was reason to expect a few months ago. Some of the prospecting mines which have suspended during the winter months will resume operations; while there are rumors, for which there is some basis, of one or more old mines starting up. There are also several bonding operations of good properties being in course of negotiation with a view of putting them into new and stronger hands, so it may be said that there is no idleness or judifference as to the opening or devolment of the quartz resources of the district There is no field in all California that offers more encouragement for legitimate quartz unning than this. This character of mining has been a successful business here for more than 30 years, during which time many millions of dollars bave been extracted, and yet there are many veins that are not fairly prospected on the surface, and n number of properties that have only been superficially worked-to the depth of one to 300 feet. There is wealth in the quartz veins of the district that justifies the outlay of a large capital and the effort and labor of enterprising men. Although much work has been done in the may of explorations itis merely the beginning of what is yet to be necomplished in this old and reliable gold-bearing region .-- Nevada Transcript.

## PREDICTION FOR SAN FRANCISCO.

Peter Cooper, the eminent New York philanthrogist and collimnire, and owner of the Cooper Institute, who died Wednesday morning, April 4th, took a deep interest in California. he had never visited San Francisco he could name all our principal streets and buildings. Mr. Cooper was a far-sceing man of excellent judgment, and he often romarked that Sun Francisco would, in time, he one of the greatest crities in the world, Two years ago, Mr. Cooper was introduced to Congressimm J. K. Luttrell, of this State, in the office of his sim-in-line, A. S. Hewitt He said to Lat-"There is going to be mother great city in teoH this country. Now York is getting so large and heavy that there will have to be another such city on the other subs of the continent to belance it to map it from tipping up, said Mr. Cooper hugh-ngly. "And I tell you, young man, Sun Fran-isso is going to be that great city. It has the harhor and a great rich country north and south of it. I can renomber when New York had but 27,-000. I have lived to see it grow to 27 times 27, will see in a few years all Francisco built up and axtending its blocks of Francisco Imitt up and extending its blocks of houses into the adjugant country. You will also see another large population settled across its lay equivalent to our Brooklyn. I tall you, sir, the two great cities of America will be New York and San Francisco."

#### HUMBOLDT COUNTY'S ADVANCEMENT.

We have rereived the annual report of the Chamber of Commerce of Eurelia, Humboldt county, by its President and Secretary. It contains much valuable information concerning the resources and developments of that rapidly growing section of the State. It is shown that the experts of its lumber, during 1882, reached a value of something over \$2,000,000. We quote, as follows, from the report:

The time has gone by when our foremest interest must depend on the primitive method of the past to supply the stock on which nar mills are to be kept running. The "snaking" process, with the stag feam and the truck and tramway, or the uncertain floods of winter, can neither singly or altegather afford the needed facilities of transport from the heart of our forests to hide water.

Lines of railroad diverging from the bay and reaching their limit by the cheap and easy grades of our principal valleys to the remoter parts of the county, as a magnificent scheme of internal improvement for us. While it would give to the mill and timber interests guarantees of almost inflimited development, it would us a corresponding degree give a vigorous push to every other form of production. The system of improvements referred to la evolved from enterprises quite distinct in their organization, each of which must rely for maintenace on the advantages of routs it may respectively occupy.

Embracing the different lines within the county, we begin at the north, in their order, with the Trinidad Mill Co.'s railroad from the pert of Trinidad to Big Lagoon, ten miles in length, Some order, the balance will be completed during this Next the Vance railroad, ten miles in length, cressing Mad river feur miles from the mouth, and in the direction it is n w penetrating is masurpassed for the scope and quality of forest treasures it must bring to its support. The extension of the Arcata Transportation Company's railroad gives it a present length of about eight infles, with a pro-posed terminus some two miles up the sonth side of the same stream, the whole of which will be completed before the close of the present year After the Arcata we come to the late enterprise of Flannigan, Brosnan & Co., a short line on the east of the upper bay, and the Carsen read of about the same extent; and lastly on the bay to the north of Enreka, the Freshwater railroad of D. R. Jones & Co., seven miles in length, and yearly being extended. These are all constructed by private par ties, with the most substantial of roadbeds, iron T rails, thoroughly equipped and operated by first class lecomotives. Like those just mentioned, the Elk river railroad (projected by an incorporated company) has special reference to the opening up of a wast body of redwood situated ou and adjacent to its route. This will terminate at the old site of Bucksport and be of a l ngth of eight miles. The company bas done the preliminary work for grading and construction the ensuing summer. But, perhaps, the most important of all, as affecting the material interest of our people, the transportation of merchandise and farm products, are the two railroads lately projected from the bay by the way of Eel river valley toward the southern and south-eastern portions of the county. Both franchlass Both franchisea are incorporated and known under the respective names of the Eel River & Eurcka R. R. Co., and the Humboldt Bay & Eel River Co. The former extends from Eureka forty-five miles, following to part Eel river valley, and terminates on the Duzen fork. The latter, starting from South Duzen fork. The latter, starting from Southport on the south bay, follows the same valley twentyfive miles, with a preacnt terminus fixed at Eagle Prairie. Work on each of these enterprises is actively prosecuted, and in the early spring a large force of laborers will be required, with a view to carry them to a accedy completion.

Sheep husbandry continues to hold pre-emineut rank among our local industries. With the favorable conditions found in our equable climate and the munificent posturage of our grass-clad hills, there is little likelihood of a abortoge of its staple product for years to come, while present average prices are maintained, but on the contrary must reach largely increased proportions.

It will be noticed in the exhibit of our exports that field crops have fallen below the amount of former years. The past season was one of "univariated, when compared with the acresse devoted to cereals, but our farmers, and we think wisely, are making a departure from oid methods by the adoption of a system of mixed busbandry—aupplementing the products of tillage with those of grazing and the darly. We believe, bowever, that facts will bear out the atatement, that while the season was uncommonly prepitions and the crops were abundantly promisting, too many of our farmers were tardy at the harvest. Tens of thousands would not cover the less occasioned by the first of October rains. A much greater breadth was sown to peas than usual, of which, perhaps a thousand acres, after teding fully ripe were damaged or cutirely destroyed.

If any one thing more than another can be a source of pride and consulation to its citizens it is a oreflection that there are so many untried an curtailed.

inviting fields of industry in reserve for the future, in addition to those by which they have reached their present enviable position.

#### GIVE THE LAND A REST.

While the majority of people are fearful lest the coming harvest should be lighter than usual, there is one man in Yole county who thinks it would be well for the State in the end, if such should be the case. He tells the Woodland Mail that impreductive seasons have been nothing short of blessings to farmers, because they allowed the land to rest. The Mail thluss there is much truth in the remark and adds:

"Under the old Mossic law, prominigated to the children of Israel, this was provided for by ordaining one year in seven the year of Jubileo. ing that year they were not to gather the fruits that grew apoutaneously. It was termed "a year of rest for the land." Their climate was similar to ours, having its rainy and its dry pertion of the year. The amount of their rain was indicative of the coming harvest. In Egypt to day the esti-mates of a greater or less boundful return trom soil is predicated upon the overflow of the Nile. Without any theological speculation on this law, as promulgated by a divine revelation or inspiration, or advanced men of superior wisdom, the ne for it is plainly manifest. We summerfallow our lands for the same reason, rest seems to restore the exhausted soil to its origind vigor. The dry years are nature's summer-fallowing. Many of our farmers would get from the land all they could each year, and would finally exhaust the abil, as has been done on many of the old tobacco plantations of Virginia, until the land und become bankrupt of all its producing qualities. A constant succession of one kind of crop, no matter what that may be, will eventually deprive any soil of the elements necessary to its growth. The farmers upon our prairies have learned that by experience, and our California agriculturalists will yet be compelled to put back upon these soils something in return for their generous contribu-tions. When all these matters are overlooked or neglected, we shall stilt find nature coming to the relief of the impoverished soil, by giving us an occasional dry year-a rest for the land-a medern year of Jubiles.

It cannot be denied that there is some trnth in the above. For 30 years past the land in the wheat grewing districts of this State has been subjected to almost yearly sowing, and this continued enlivation must, of necessity, exhaust its vitality. In early days the soil in the valleys was wonderfully productive. As far back as 28 years ago, when the farmers were obliged to rasort to semewhat primitive methods of harvesting their creps, we knew a third volunteer crop of oats to yield 75 bushels to the acre. It was threshed on the ground by being tramped under the feet of herses, and, of course, much of the grain was leat. This land was afterwards ploughed and sewn regularly every year, for fifteen years, and, at the end of that time, it was only under the most faverable conditions that it would yield 30 or 40 bushels of wheat to the sere same unwise system of farming has since been followed up, it is more than prebable that 20 hushels is now deemed a good crop on this same Until comparatively a lew yo past, farming-like every other industry in California-was conducted in the loosest manner. Farming on shares was largely engaged in. A stranger would come along in the carly fall, and bargain with the shiftless owner of a farm to "put in a crop on shares." He would invariably make a few thousand dollars, and then strike out for the mines or States," and another would take his pisce the following year. The land was then so rich and pro that nobody thought it would ever fail to raise an atmudant crop—if, indeed, sny thought was given to the subject at all—and so the loose system was continued. There should be a rotation crops, or else land that has been enlivated for a few years successively should be allowed to reat one or two acasons at a time. If farmers will persiat in ignoring this fact, perhaps at is well, as the Yolo Mail intimates, that an unproductive season comes once in a while, to enforce a year's rest for the overtaxed land. -Sacramento Bee

#### THE SHEEP RAISERS.

A writer in the Rural Press, of recent date, furnishes that poper with an interesting artiele on "Sheep Husbandry," from which we clip the following paragraph:

Sheep matters are now of special interest; because of the continued demand for California sheep to cover the pastures of the great central States and Territories, where wool growing is now extending rapidly. The contraction of our ranges by the continual increase of cultivated areas is compelling sheep-growers to change their methods, and the demand for outside regions has given a good market for the surplus, which would have, perhaps, become furthersome without it. It has allowed a continuation of breeding which otherwise would probably have been curtailed.

#### MOUNTAIN BEAUT

One of the especial features of beauty in Los Angeles scenery, and in Seuthern California, is the peculiar boanty of our mountain scenes. But little tas ever been said about the scenery in this part of the country, except its seashore and orange groves and vineyards.

A view from Los Angeles observes the northern herizan hounded by the grand old Sterra Madre monutains, about twelve miles distant. There are many ways of enjoying the delights of this mountain seenery. During the spring, summer, and antumn, camps may be established at the month of canyons, with streams of pure water. The shady retreats of the canyon in the daytime afford levely places for flabing, bathing, and innehing, with a ravenous appetite, while the open country, out of the canyon, affords a dry, warm place for the camp at night.

There is treanty all abroad. 'The open plain and the distant occan are exposed to view, while within the canyon, the deep recesses in the rocks, shaded by bay-tree and alders, afford food for profound contemplation. At a sweep of vision yen behold the lofty summits, where the moss-clad pines and cedars wave, where thunders alcep and lightnings come te play. On downward, the eye takes in all he rocky elements of the range, miocene, pliocene, secondary and silurian, down to the primitive strata of rock at the base, forrowed out millions of years ago, in the then plastic stone, by snlphurous atreams, while the young earth was fleating in scalding mists and darkness, hefere sun or moen had illumined its surface, while lightnings and earthquakes raged in the heated, misty mass of cosmical matter gathered into form from the great seed-bed of worlds pervading the starry firmament. Here is the anatomy of the planet disclosed in great, grand majesty.

Another, and more beautin way of enjoying the beauty of our lovely monntains is to climb, by easy journeys, to the top of the range, into the majestic forests that crown the lofty heights. As the asceut is made, every atep is a new pleasure, revealing every moment some new view and increased acope of vision. The trails are winding and remantic, but the labor of ascending is full of reward. There is an exaltation of mind and feeling when the visitor atands upon the crosted headlands above San Gabriel, and takes in the wonderful view that opens around.

Out on the ocean the apreading saits of commerce seem to connect sea and sky, while the smoke of the steamship bangs in festoons in the air. The valley of San Gabriel is almost under the feet, Every house and orehard and vineyard and village and reserveir is plainly revealed, while the goodly city of Les Angeles seems close at hand, with all its features clearly marked out and notably distinct. Santa Monica, Wilmington, Anaheim, Santa Ana, and Orange, though more distant, are plainly seen, and a full view is obtained of the great grain fields of San Fernando.

All the industries of the land are before the eye. The ships, and other vessels at Wilmington, are all in view. The ships trains are burrying to and fre, bringing in the merchandise of the East and of Mexico, and carrying away the rich products of the Pacific Ceast in overy direction.

It is a scone for a painter, a poet, or a historian, rare and rewarding. The brave hand that first some that the summer clouds, now lies at rest in the little churchyard below, and in view of the delighted traveler, and all who olimb to this mount of vision will bless the name of Beujamin Davis Wilson for this grand view which his band wrought out long years ago, by which the ascent of our uoble mountains is easily attained.

The summer olimate on our mountain tops, among the noble trees that shade apruge of cotdest water, is one of rapture. The delicate air is perfumed with odors of trees and flowers, and is of crystal clearness. We need no dislant trip and expensive journey to find a land of Beuhali. It is at home in our own matchiesa mountains that have been neglected too long and too unct by our people. In the near future they will be the resort of all who love ruged rocks, dashing waterfalls, bold precipices, forests, and dowers, and visious of heauty that make mankind wiser and better. Surely there ought to be coungh of adventure and onterprise to open a hourding home in the old log palace on the mountains, or build other such house in rustic style, and luvite the people to go up and "Look at mature to the letter moods."

Too long lims this most lovely place been neglected. With the coming animum may this neglect be removed, and our exhibed hand of hearty the occupied with intelligent visitors and lovers of the fluest seenery in our country—Los Angeles Express.

#### HERIN A VEGETABLE GARDEN.

Every furiner and every housekeeper who has a spot of hard large enough should embrace this favorable weather to make a beginning for a vegetable garden. Lettnee, onlone, currots, beets, pursuits, cabbage, turnips, and rullshes, may all be planted new, with a certainty that they will grow well, and produce a good variety of fresh, home-raised vegetables for the table. — Volo Matt.

#### WHITE EGYPTIAN CORN.

This is a ruest valuable grain plant ever introduced into our State. Mr. Scuttergood at Buld Mountain has successfully tested this wonderful corn, and informs us that it grows luxuriantly ou the dryest places and without a particle of irrigating. There are several varieties of it, but the best is the solid headed, in troduced by Prof. Sanders, from the intering of China many years ago. It will make a crop on poorer hand, and with less moisture than auy other grain. It is more valuable pound for pound than harley or Indian corn for feed for horses, while for hogs nud fewl nething of the grain kiud equals it. By care and high culture, there was raised at the rate of mue tons of grain per acre. Seven crops of heads were ent, extending overn period of six months of harvesting, or a crop every 30 days from the entting of the first crop. One year, says the writer, I did even better than this: On the 19th of June my ditch broke and wet a piece of land. I plowed it as soon as it was dry enough, dropping Egyptian corn every third farrow, It never had either care, water or culture, and 117 days from the day of planting, viz.: October 21st, we gathered the crop, 80 bushels or 3,600 pounds of the most beautiful grain that I ever saw, per acre

The advantages of raising this grain are: 1-It will give a big yield on soil too peer to pioduce any other grain crop. 2-It will grow in ground too dry to produce even tye or harley. the two next dryest crops. 3-1t requires no threshing; just cutting off the heads being all that is necessary, and that is less work than to husk other corn. 4-It can be harvested any time from August till Christmas, being ready at any time that you are ready to harvest, -Its yield is greater, and it is more valuable stock or team feed, pound for pound, than so; other grain. 6-It is one of the most healthful and palatable articles of food ever brought to the table, either ground and made into buns, cakes, puddings, etc., or cooked whole as a substitute for rice. 7-It leaves on the ground, when summer feed is gone, immense quantities of green stulks, leaves and heads, which are greedily eaten and are of the greatest value for full pusture of all kinds of live stock.—

Tuolumne Independent.



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THE FOOT-HILLS OF THE SHERRA

The Crowning Glory at the Colden State.

(Written for Tue RESOURCES OF CALIFORNIA, by James Kemp.1

California has a distructive individuality, (if the term can be properly applied), that renders her, in many essential respects, the direct opposite of all the other States which, in the aggregate, form the American Union. It follows, that the immigrant once having sailed inwardly through the Golden Onte, passed the boundary line of Oregon, crossed the snowy snumit of the Sterra, or entered the State southwardly, by way of the Oolorado desert, must expect and prepare to commence life again, upon an entirely new basis, throwing away the traditionary methods, manners, and oustoms of his ancestors, as well as precedents of every other description, literally, minutely, and nuhesitatingly, to the winds.

This is one great, vital principle that, first of all, must be completely digested, and then strictly adhered to; non-compliance with it having proved a stumbling-block to thousands upon thousands in the past, who, with the most stubborn tenscity, insisted on viewing and judging of the resources, characteristics, and capabilities of California, through the medium of Eastern or foreign eye-glasses

The foot-hills of the Sierra embrace the locality in which all our placer mines are situated, and which has already yielded fully a billion and a half of virgin gold.

It was to this region that the miners of '49 made their way, not one of whom, nor of the immigration of several succeeding years, supposed the soil of any account for agricultural purposes, it being conceded by all parties that, after the mines were exhausted, the whole sec tion would naturally revert to the possession of the Digger Indinu, grizzly bear, jackase rabbit, and coyote.

The writer arrived here in September, 1849, and a few weeks later commenced operations at Dry Creek, (now called Drytown), Amador county, residing there for a period of ten years, during which he had ample opportunity to learn and judge practically of the merits of this great region, which is situated on the western side of the Sierra, extending the whole length of the State, a distance of 750 miles one way, and 40 the other, embracing a total area of 30,000 square miles; three-tifths the size of England, which has a population of 23,500,000.

Taken all in all, a more beautiful locality cannot be found, and it is certainly destined to become the delightful home of several millions of happy and prosperous people.

The distance from the base of the mountains across the valley to the Sacramento on one hand, and the San Josquin on the other, is some 30 miles. Emptying into these two rivers, and flowing from the Sierra at right angles with them, are the other principal streams, generally about 25 miles apart, and ranning parallel.

Shortly inside the foot-hills they branch off, each having its north, south, and middle fork, which, farther up, in turn fork again, until the whole region becomes watered by innumerable branches, in a manner more complete than the most skilful engineer could possibly devise.

The reader will please bear in mind that the two great rivers-the Sacramento and the San Josquin-do not extend to each end of the State, the Sacramento heading 100 miles south of the boundary line of Oregon, and the San Josquin 200 north of the line of the Colorado. This, however, makes no difference, other rivers taking their places, making the same description equally good; and besides, I wish it distinctly understood that I make these statements in general terms, and not strictly

Still beyond the foot-hills, and adjoining them, is yet another strip, twenty miles wide and running their entire length. This section lies just inside of what is known as the snow belt; and in order that the distant reader may the better : !uprehend my meaning, I wish to state, that II & Sierra Nevada runs the whole length of the btate, on its custern side, th ascent commencing at the base of the footbills in the valley, and increasing in altitude until the summit is reached, which is 10,000 feet, more or less, above the level of the sea. This second section is linhle to have snow in the rainy season, but it all disappears very early in the spring; and there will, and day, be the great apple region of America.

Much has been written and said in praise of

the valleys of the Golden State, and most justly, too, but they constitute only a portion of the soil; the great, crowning glory of Califoruia being her peerless and magnificent foot hills, that have thus far been comparatively overlooked, but which will soon prove to be, viticulturally, as they were for minerals in the early days, her greatest and most prolific source

The reader will remember that they constitute the entire mining section from which, as I before remarked, \$1,500,000,000 has already been extracted.

The climate is absolutery delightful, and, at the same time, the healthiest upon the face of the earth. As I before remarked, they stretch north and south the whole distance of the State, and one living there can guze upon a panoraius of landscape beauty, that I do not hesitate to say has no equal in all the world. The length and breadth of California spread out before the eye, with the placid waters of the Pacific beyond-the view taking in at one sweep an hundred miles to the right, and the same number to the left, the whole forming one of the most soul-inspiring pictures pos-

Children reared by good, honest parents, amid such trancendently glorious scenes as these, and having for a pursuit so eunobling a business as viticulture, can not fail to become, and certainly will eventually, the finest types of man and womanhood the world has known.

Where, I would ask, is the miner that, in the early days, lived and worked in this region, who will not heartily endorse every word have written in this connection, and then say I have given but a faint and feeble sketch of its most unprecedented beauty.

I know I am using strong language, but in proof of what I have stated, I call as witses every person who either lives at present, or ever did reside there.

Who that has been there during our long and glorious summer has not sat for hours listening to the melancholy tones of the mourning dove, felt that sweet spell gently steal o'er the seuses, and afterwards arisen, feeling him or herself a hetter man or woman, with truer im pulses and nobler aspirations? It is these beautiful, purely natural influences that form the character of the child, make better beings of us all, and finally give tone, stability, and moral grandeur to the whole commonwealth.

Let the reader for a moment contrast a life like this, amid such delightful surroundings, with that barren, heartless, hollow one in the city, whose votaries spend their days in vain efforts to appear what they are not, and whose minds are exercised almost to desperation over a mighty attempt to solve the great problem of which is the most stylish, a round-toed shoe or boot, standing or turn-down collar, and who consider the noblest aim of a female, anywhere between the ages of sixteen and sixty, should be dress after the latest and most approved manner of the demi-monde of Paris, and then leaving home and children, if she has any, to take care of themselves, strut her brief hour or two upon the principal sidewalks, to be admired, gazed at, and commented upon by the hrainless statues who stand on the corners all day long, neither toiling nor spinning, but, on the contrary, pursuing a life of complete idle ness, and living off the wages of marketable and shameless sin.

To return, however, to my original subject, the foot-hills of Culifornia constitute the very fruit and vineyard hand in the State, and can be purchased at present at from about two and one-half to hve dollars per acre, and, in many cases, be pre-empted. It has been prictically demonstrated, over and over again, that mountain fruit is far superior to that raised in the valleys, El Dorado and Placer county peaches especially, commanding a much higher

But thus far I have only enumerated a few of the great advantages of this wonderful re-gion. Does the emaciated, consumptive invalid look upward, and, in tones that would melt a heart of stone, cry out in absolute dispair, "Oh, God ahove, is there no spot in all this world where I can go and possibly find relief?" Cultfornia instantly appears in the gurb of an angel of love and mercy, and pointing to her own genial, bealth-giving foot-hills says, "There, is the shot designed by the Great Crentor expressly for you. Go to it at

expensive visits of a doctor, and, if not already too far gone, die finally not prematurely, but at an advanced and ripe old age.

Does the man of small means desire to establish a home for himself and family in some locality where it will not require all the money he has for the necessary dwelling-house, outbuildings and land, this is most assuredly the place. Here he can get, for instance, 60 acres for \$150 to \$300. Three hundred dollars more will build a good, substantial house, large enough for six persons, made of plain boards with the cracks buttenned, which will prove all that is necessary in a climate like this. He needs no barns for his stock, a simple shed being sufficient, and, if any sort of mechanic, he can do all the carpenter work himself.

Instead of laths and plaster, a lining of nubleached sheeting is hirst tacked to the sides of the rooms, and then the custom is to paper on top of it. Sheeting is also used overhead for the ceiling, and when completed, the rooms will have a fine finish, at merely nominal cost all the work having been done by himself and family.

After this, he can set an orchard and vineyard and, if possessed of \$2,000 at the start, will soon be on the high road to wealth. How much better this is, than paying the same amount for a lot in the city, having nothing left to build a house with, and being obliged to resort to a mortgage, the chances being even, that he will finally lose all.

Does the man of wealth and pleuty of leisure wish to find a locality where he can obtain the largest amount of real rational enjoyment, purest air, must superb climate, with every variety of flesh and fowlethe most delicious fruits and vegetables, with the fluest qualities of untive wines to tickle his pulnte, a garden filled with the mrest plants known to the botanist, scenery mone beautiful and far grander than that of Switzerland, railroad comminimization with all parts of the Union close at hand, and the daily papers almost before he eats his breakfast?

If so, he will find all these comforts and very many others in the glorious section I have described, and, if disposed, can build a home and concentrate within it every comfort and luxury the combined climates of the world afford.

Well may it be said, and never were truer words attered, than the simple statement that the foot-bills of the Sierra are the grand crown ing glory of California. It was in them, 35 years ago that Marshall made the great discov ery that shook civilization to its very center When another period like that shall have elapsed, the whole region, from Oregon on the porth to Arizona on the south, will have become the grandest, richest, and most beautiful por The whole section, dition of the continent. vided into hundreds of thousands of the happiest, and most independent homes that have ever been reared since the foundation of the

Reader, this is no idle dream but, on the contrary, a true statement of what is bound to he-an actual, living reality, and every person, within the confines of the State, who is acquainted with the foot-hill region and its mighty resources, will readily endorse every word of it. Rich as the valleys of California are, they only constitute the skim milk, while the foot-hills, the creum.

They are open to settlement; and almost anyone can have his little kingdom there, who desires it, almost without money and without price. This state of things will not last long, however, as immigration is commencing to pour in by the various overland lines already built and being rapidly constructed. As said before, they are destined to become the great fruit-producing region of America; and will close my remarks with the statement, which I nahesitatingly make, that the finest wines which have ever been produced in any quarter of the world will yet be maile from the grapes raised in the foot-hills of the Sierra.

SAN FRANCISCO, April, 1883.

#### NATIVE COTTON.

We are la receipt of a specimen hush of cotton, grown by Supervisor Foreman on his place a short distance above Bidwell's Bur, in Bidwell township. Mr. Foreman's place is to the foothills, between the North and Middle forks of Feather river, and the has shown by the introduction of water that it is capable of producing anything in the way of cereals tropical plants and fruits. The intention is no Great Creator expressly for you. Go to it at once and, at an altitude of 1,200 feet, 'live' free from the nauseous taste of cod liver oil, it free from the nauseous taste of cod liver oil, of the production of cotton.—Chico Enterprise.

#### MISSION FRUITS

The San Luis Obispo Tribune says: Many years ago this was called "the city of the olive tree." The old missionaries nearly 100 years The old missionaries nearly 100 years ago planted the olive, fig, pear, and grape, ami all grew and throve wonderfully. Fig trees grew in the Mission grounds so that their branches spread over an area of 60 feet in diameter, and the hody of the trees, in numerous instances, exceed four feet in dimmeter. The stumps of some of these still stand as proof. At the Mission of San Mignel pear trees were destroyed, not many years since, that had borne fruit for three-quarters of a The San Luis Obispo Missian ones received a large revenue from its manufacture of olive oil and pickles from the olive trees it cultivated, and its vineyard was quite relebruted. Figs and olives are semi-tropical fruits. They were the great products of San Lais Obispo in former times. The thrift and prosperity of the Mission ceased, and an interregnum of indolence ensued an era of new life and prosperity. Firms of every variety are grown successfully, although not so generally as in other parts of California. Those who have tried have suggested for beyoud their expectations. There are, uniforbtedly, some localities where the sweep of the ocean winds blast some kinds of fruit, but generally fruit grows to as great perfection as in the most tavored parts of the world. Wo have had apples, pears, and gropes from Mr. Frederick's farm, which is between the city and the buy of San Luis Obispo, on the Sun Miguelito Rancho, that could not be surpassed anywhere. The apricots, cherries, plums, penches, apples, and grapes shown by E. W Steele, on the Corral de Piedra, were among the very hest we ever saw. Gropes grown to the Estrella and Salinas valleys are said to be sweeter than those grown west of the Santa Lucia range. The apricots of the hilly region west of Paso Robles, extending to the coast, are represented as far superior to any brought from the north. This is a broad range, where experiment has proven that every variety of fruit will grow to great perfection, but it was of oranges we proposed to speak. In many of the gurdens of this city are found oranges, lemons, and limes growing luxuriantly, and giving much pleasure to those who have taken the trouble to cultivate the trees A short lime since, we took a stroll to the pleasant residence of Senore Menoz, in the eastern suburbs of San Luis Ohispo. There we found trees more than twenty fect in height loaded with oranges, and smaller trees bearing an abundance of cellent lemons. All the trees were seedings, planted by the buly herself. The oldest trees were nine years of age, and each bore several hundred oranges, rich in their bright golden color amid the dense folinge of dark green. Wherever seeds have been planted they grew without trouble and without care. The restdence is upon the billsole overlooking the city and a broad expanse of country, and it is embowered in evergreens of orange, lemon, pepper and enculyptus trees, is one of the loveliest localities imaginable. This is said to be in the "warm helt," and therefore more favorable for the production of the orange than other localities, but the fact that oranges grow on the lauks of San Luis creek, which is not considered in the warm belt, is proof that there is no very cold bolt anywhere. We may conclude that oranges will grow almost every-where throughout the county except, perhaps, in the high regions beyond the Salmas, or on exposed parts of the coast.

#### OUR WINE AND GRAPE INTEREST.

Though the grape industry is yet in comparative infancy, it is a child of lusty growth. years ago the yield of California chiret was from 500,000 to 600,000 gallons; last year the claret vintage must have reached 3,000,000 gallous Ten years ago there were 5,000 or 6,000 cases of champague made in this State; five years ago there were 8,000, and last year there ere 18,000 cases. The vintage for the State last your has been estimated as high as 10,000,-000 gallons, the lowest being 7,000,000; while another authority estimates the California wine and grape product of 1882 as representing n money value of \$4,500,000. The new taniff will prove a serious blow to the import trade, already emplied by the competition of homemade wines, and the extent and character of viticultural pursaits to Callfornia justly entitle them to the position of the second great industry of the State .- Russian River Flug.

#### THE RESOURCES OF CALIFORNIA.

JUHN P. H. WENTWORTH EDITOR AND PROPRIETOR.

#### PUBLICATION OFFICE:

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188UED MONTHLY

SAN FRANCISCO......APRIL, 1883

#### READ AND CIRCULATE.

When you have read this poper preserve it and lend it to your neighbors, or soul it to some crient in the Kastera, Westernor Southern States, Casada, England and Continental Europe, who will value the information it contains, and sught be likely to come or send intelligent, industrians farmers to gettle in California.

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#### THE TRIENMAL CONCLAVE.

We observe with pride that, as the time approaches when large crowds of people will visit California (from all purts of the States) for the purpose of attending the Triennial Concluve to be held in this city in August, our citizens, generally, are busily engaged in making the uccessary and suitable urrangements for their reception and entertaiument while they remain among us as our gnests. From the responses already received. from many commanderies at the East, by the Committee of Arrangements, there is now sufficiently definite information to warrant the belief that, at least, 10,000 Knights Templar and, perhaps, double the number, will visit California on this occasion; and it is thought that the families of the Sir Knights, who will accompany them, will increase the number fally 100 per cent.; and will, it all probability, be the largest and most distinguished gather ing of people that will take place in the Westernmost State of the Union for many years. The Triennial Committee, composed of representative Sir Knights of this commonwealth, hold regular meetings for the purpose of disensaing matters of interest relating to the success of the coming Conclave. 'There are thousand of people at the East who are not Knights Templar but, wishing to avail themselves of the opportunity to visit the Golden State, are losing no time in becoming qualified in order to take advantage of the reduced passage rates and participate in the grand tour scross the continent. Hence, it is to the interest of our business men, as a matter of city and State pride, to contribute liberally to the funds of the Committee of Arrangements. As stated by a city contemporary not long since, San Francisco's movements in the matter are now being watched in all the principal cities of the United States. If it be found that we are making generous arrangements for the entortainment of our gnests, the number will be largely increased. This is the proper view to take of the matter; therefore, let the subscriptions be on a liberal scale. In the lauguage of a sagacions and far-seeing gentleman; "A bandsome subscription to the Knights Templar fund will be the best stroke of business Sun Francisco has done for many years." Every citizen wbo has the interest of the State at heart should contribute to the fand as liberally as his means will permit. It has been estimated that the direct expenses of the necessary preparations for the Concluve will reach from \$80,000 to \$100,000. Our coming visitors will be composed of a class of people that will be of lncul-

culable benefit to our young State. They are the representatives of the very hest elements of every department of industry and social life, whom it will be an agnor to know and a pleasare to meet. Of course, they will take care of themselves while here; but there are social amenities and courtosies to be extended that will involve a considerable outlay.

We anticipate an influx to the State after these visitors have returned and reported to their Eastern homes; and it is a safe calculation to make, that numbers of them will conclude to settle up their office, and return and make permanent homesinthe State which they lea ned to like during their brief sojourn in it. This has been the case, in the past, with a large classof people who came to California with the view of only stopping in it afew monthsus a winter resort; and we no reason why temporary sojourners, like the Sir Knights and their friends, will not pursue the same course. To our mind, there are sufficient reisons why many of them should conclude to make their future bomes here. They will, as a rule, be composed of men possessed of considerable wealth, great foresight and engacity. They will, after visiting many places in California, readily observe that there is more prosperity and rapid development of the resources of our State, in proportion to the number of its inbuhitants, than can be found elsewhere, and conclude that there is no other community which will compare with the Golden State jo point of climate, richness of soil, and untural advantages for great business enter-In our judgment, there is no other State that bolds out so many inducements to immigrants with some means, strong hearts and willing bands.

Our visitors, in traveling over the State, will observe that since the discovery of gold it has been gradually filling up with an enterprising population; that grout areas of land have been brought under cultivation and made to yield golden barvests; imbustry and art, in multiplied forms, have made rapid strides of advancement; established cities and towns have given permanency to business and mule comfortable homes. All that is needed is a fair and reasonable presentment of our varied resources and wonderful productions to convince enpitalists, who soon will visit us from every State in the Union, that no country in the world surpasses the Golden

The importance of this visit to our State, in the beneficial results that may flow from it, can not be overestimated. A better opportunity will, perhaps, never he offered California to make known abroad her advantages, and increase its population with worthy, wealthy and enterprising people. Every community throughout the commonwealth should make arrangements, for its own sake as well as fer the State, by receiving and properly entertaining these distinguished visitors. They should spare no prius in showing them the oatural reources and the developments which have been made in their respective localities. Whatever money or effort may be expended will bring a thousand fold return in the way of henefits, to say nothing of the satisfaction and pride every citizen must feel in having California make a oreditable showing of the resources and the advantages she has to offer immigrants, when they shall come in review before the assembled gaze of the representatives of the entire Union. As there is no doubt but every part of the State will be visited by the Sir Knights, every Californian, however humble or exalted his station, should feel interested in having them as truthfully impressed as possible with the extent of the resources and material progress of his section. On their return to their respective homes, the opinions expressed will have great weight, and, to a considerable extent at least, will affect future immigration. The reports that will he sent to the Eastern and Enropeau press will also hava a pronounced effect. In short, this is a good opportunity to present California as she is. Let us do it,

#### INVESTING LARGISLY.

MR. CHARLES CROCKER has Invested, ontoide of his magnificent residence, nearly two millions of dollars in buildings in San Francisco, within the pust two years. He is also construct. ing immense brigating works in Merced county. This canal will irrigate 128,000 peres. land to be irrigated lies in Merced and Stanislaus counties,

Who will first commence to throw much at this soulless, "blooted boudhalder"? It is nearly time to begin again.

#### THE LATE RAINS AND THE CROP OUT-LOOK

The rain fall, during the last week of March and the first few days of this month, bas been sufficiently alumiant to dispel all fears of failure of crops. In nearly all sections of the State the general opinion is, that there will be not only a larger area of grain barvested this year than ever before, but the yield per acre, in most sections, will equal that of last season. From nearly all localities come encouraging reports of the agricultural coodulou of the State. The farmer, the hardest of all buman beings to please, in most cases, is happy and joyous It would certainly seem as though Califorein was new hooked for good crops. The rain came just in time, in just the right order as to quantity of distribution.

In many districts where despondency bad been created, by long continued drought, a feeling of confidence now exists. The rains have been of great benefit to fields recently sown, and will make it possible for farmers to extend their acrouge, even at this late date Judging from the very latest reports, we think it may be stated, with absolute certainty, that with occasional abowers, during the next six weeks, the crops, in the districts which seemed but a short time ugo doomed to fuilure, will be tolerably good. There is time enough yet for more rain, and the records of all previous years will instify the expectation that it will Grain which was thought beyond redemption, says the Merced Express, in every instance, so far as we have been informed, will yield a fair crop. The intelligence comes from every quarter of the county, that the yield of wheat and barley will be unprecedentedly large if the weather during April does not prove ex ceedingly unfavorable. The moisture in the ground will defy any common north wind, and none but obronic croakers unticipate any dan-

Reports from all parts of Tnlare county, says the Visalia Delta, state that there will be an average crop this year. Much of the grain that was thought dead has already shown signs of life. The plains seem to be the only part of the county where any serious damage was done by the drouth and it is believed that even there the crops will be good. So far there has been no cold weather to jujure the fruit which promises an extraordinary yield this year.

In speaking of the value of the late rain-fall in San Luis Obispo county, the Tribune says: It is of incalculable value. It is, what can be few things, an unmixed good. hear on all hands varying estimates in hard dollars of its benefits to the county. Some of the calculators say the raid will make a difference of one million of dollars in the yield of the various farms products, while other and more enthusiastic fellows but the difference in our favor as high as a million and a half.

The Ventura Signal says: The last glorious rain completely breaks the back of the dry season, and the copions showers, coming as they did in the nick of time, bave guaranteed spleudid crops, where without it we would have had nothing.

The Merced Express says that it was very common to hear people, on the street, remark "This is \$10,000 in my pocket;" "this brings me out all right; everything I had was in that piece of grama," etc. Then it is no wonder people are happy and glad.

The Sau Benito papers say that the inhabitants of that county are jubiliant, on account of the late rains. All fears of a dry season are cast uside, and San Benito county will turu out a large yield of grain and hay.

The Colusa San, in speaking of the crop prospects of its county, says; What a change II fow days have brought about 1 At this time last week there was bardly a farmer in the county that would not have compromised on "feed and seed." Some of the late sown grain still looked good, but the ground was dry and rain must be had soon. The rain came and it set everything booming. To some individual farmers it is worth tens of thousands of dollars, and to the county millions. Wheat plants that actually appeared dead have commenced to send out new roots and new spronts, so that there are many fields that will not re-Of course, it is too early vive to some extent. now to determine the full effect of the min, but it is a Godsend for which the people nught to feel truly thaukful.

The Los Angeles Herahl says: The rain is worth millions of dollars to Los Angeles county; and it is, altogother, the most auspie- paper to send to your friends abroad-

ions event which bus been recorded in our local history for a long time past. It has proven to be warm, abundant and most timely. The Mirror adds the following: This rain puts millions into the pockets of California firmers and business men, and puts this country in fine shape uguin. Hundreds of tons of hay will now be made where two days ago the owners expected to even lose their seed, and much that would have been cut for hay will now make grain.

A writer in the Santa Ana Standard states that never in the history of California, perhaps, has a rain been so timely and valuable as the general storm which has fullen over the State during the past few days. In the northern and central counties it was especially accept able, and makes a season which threatened to be one of drought and dienster to almost the entire State, as far as the cereals were copcerned, one of reasonable promise.

A correspondent of the Sacramento Bee, who has recently traveled over the agricultural section, states that uppermost in people's minds is the subject of crop prospects, and it is gratifying to note the fact that the late rains brought joy and contentment to many thopsand homes throughout California, wherein the gloom of despondency had began to set in about the family board. A wonderful impetus has been given to all kinds of crops, and the country is now rich and heavy with verdure.

A correspondent of the Modesto Herald suys: Stanislans county will roll up the largest wheat crop of any county in the State. The average sown is larger than ever before and the west side, which was partially lost last year, will add largely to the total amount.

The Solono papers declare that theirs will be the hanner wheat-growing county.

The above extracts are only samples of hundreds of others which we might quote. But they are sufficient. The late copious rains were so general as to leave no section without It is now certain that the great major ity of the grain crops have been saved, and that the fruit crop will be exceedingly abundaut. The result upon the general trade and industries of the State is almost incalculable. The ontlook throughout the State, at this time, for the farmer is certainly of an encouraging character. There is every reason to believe that 1883 will be counted among the most prosperous years California has ever had. dition to guthering a large harvest, buildings will be erected and improvements made throughout the farming districts, which will cause labor to be in good demand in every department of industry.

#### PUMPING WATER.

What can be done in arrigating land, with a water supply obtained from the ground by pumping, was illustrated last season at R. B. vineyard, near Woodland, Yolo Blower's county. It is stated that from a well 20 feet in diameter and by means of machinery that he employs, using straw for fael, he can pour on any part of his laud 150,000 gallous of water per hour, ar a little more than three and one balf millions in 21 hours. One piece of ground, containing six neres, he floorled entirely with water in eight and one-bulf hours. This water, if sold at the price the Board of Supervisors of Yuba county fixed for water for purposes of irrigation, would yield him a rercome of \$22.50 per honr, or a daily income of \$225 for each ten bours or a mouthly revenue of \$5,625 for each 25 days. irrigation Mr. Blowers has raised as high as seventeen tons to the acre of seedless Sultans grapes. This was from six-year old vines. When planted from entlings, two years old, they yield him about four tons per acre, and rooted vives of the same age will yield eight tons per nere.

#### F. A. HATCH & CO.

This firm, whose card will be found in auother column of this journal, do n careful and thorough business, as commission merohants. They advertise to make liberal vances on consignments. The head of the bonse, F. A. Haron, we have known for many He is iminstrians and nuswerving in integrity. Give the firm a trul, and our word for it, all consignors will be satisfied with the mauner in which their lusiness will be transneted.

THE RESOURCES OF CALIFORNIA is the best

#### CALIFORNIA WINES.

The following, we take from the editorial columns of the New York Evening Post of recent date:

columns of the New York Evening Post of recent date:

The trale journals are again directing attention to the fact that a large portion of wine sold in this country as foreign with its produced in California, and sold in bottles labelled with imitation foreign labels. A Beaver sirect wine merchant said yesterday, in speaking of the matter: "The circle fromble is had of the middle-men, the wholesale who increhant, who my from the wine-master and will 10 the rotalier, are interested in keeping up the deception, because bing from the wine-master and will 10 the rotalier, are interested in keeping up the deception, because bing from the wine-master of they are mable it buy cheap and self-dear. It is to their alternating of the deception, because whereas of it they are mable it to be deception, because whereas the control of the deception of the proposition from the men who soil American wines and foreign produces. Every possible trick is received to for the purpose of diagnising the fact that the wine sold is California wine. Even in San Francisco, where some local pride might be expected to help the sale of native wines, they are bottled and soid largely with French labels, some being initiations of Indies of elebrated houses, and others being more lamocent of eception because they loue tatefall trade marks. Since the passage of an Act imposing a fine of \$300 for seitlug wine with foregol labels, the frand is carried on more carefully, and cases of bottles are sent by whice merchanis to retail dealers without labels, and the labels are sent separately and are pasted on according to the demands of customers. One case of American wine can, by this eystom, make a label do service for haif a demands of customers. One case of American wine can, by this eystom, make a label do service for haif a demands of customers. One case of American wine can, by this eystom, make a label do service for haif a demand of recording the produce of the country of the produce of the country of the produce of the country of the produce of

another a tabel of an imaginary firm, "E. Blossier's Clo., Rhiems."

"A dealer In nothing but California wines, who sells them as such, and is trying to educate the public laste to like it, under us troe name, said the California winerswers have thomselves to timak for the present condition of affairs. Instead of devoting themselves to make a pure wine, they attempted to try all kinds of devices to imitate European wines in color and flavor, and thus pixed directly into the hands of the importers. As to the fact that an enormous quantity of California wine is solid under foreign labets, here is no donbt of it whatever. Any wine merchant will admit that not one-twentieth of the wine solid to community in that country in 1889 was sold as American. Four hundred and fifty thousand gallons were sold in one month to foreign importing houses in this country in 1889, was sold as American. Four month to foreign importing house will deep point blank saving say thanks firm, who would deep point blank saving say chanish firm, who would deep point blank saving say chanish firm, who would be constituted in the country of a French importing house said: "Un-

wines."

A number of a French importing house said: "Undoubledly American wine is sold under foreign labels, but it is still possible to buy real French wine."

The journal from which we take the above late, had considerable to say concerning our California wines. While that paper does not, perhaps, intend to wilfully misrepresent the quality or quantity of wine made in this State, still articles of which this is a fair sample convey an incorrect impression, and will be the means of injuring one of our most Important industries.

Now, in regard to California wine being sold in bottles with foreign labels on them, we have only this to say: We are perfectly certain that there is not a California wine-grower who does not desire his wines to go before the public just as they are made, without adulteration or misrepresentation, and with the understanding that they must stand or fall on their own believe that our wines are far superior to the basely adulterated articles bear ing a foreign brand, which find ready sale among a certain class of people here and in the Eastern markets. There are many gentlemen in San Francisco, who were horn and raised in the wine and grape-growing countries of Europe, that unhesitatingly declare the superiority of California wines. In our judgment, if our winea are adulterated, after leaving the possession of our wine-growers and mannfacturers, it is because they are prime and will stand it; for even then they are pronounced, hy connoissners, to be anperior to the foreign adulterated article. We learn from English papers that, for a long time, the English wine drinker has been imbibing the artificial preparation of sharp Frenchmen, under the impression that he has been drinking the pure jnice of the grape. He is gradually having his eyes upened to the fact that about ninetenths of the so-called claret and port wine, imported into Creat Britain from France, is not wine at all, but simply soaked figs, ourrauts, bassia blossoms, etc., doctored to suit the fustidious palates of the British high-livers. The London News, in commenting on the brewdness of the French and the stupid credallty of the English, who buy these vile imitations of wine, expresses its amazement that

the importers of England do not pay attention to the wines of California, which are noted for their purity. The surprise of the News seems to be genuine that a promising market is not explored by its merchants.

We regret to say that it is a fact, well known to American dealers in wine, that nearly all the snobs of California and other States judge of the character of wine by the labels on the hottle. "These remarkable connoisseurs," a gentleman a few days ago, "would drink colored min-water and pronounce it delicious, provided it cost three or five dollars a bottle, and had a brand with the words 'Chatteau d'' something on it." And he added that "if the 'fool killer' were sent on a visit to the mansions of some of our shoddy aristocrats, a great many of these connoisseurs would be heard of no more '

The New York Post justly says, that if Californin wines continue to be sold under foreign labels, they will never make a reputation of But who are the parties that adopt their own. the foreign label for our wines ? Certainly not the California vine-growers and manufacturers. We are personally acquainted with nearly all of the leading wine-growers of the State, and we know that we make no mistake when we say that not one of them would be guilty of perpetrating such a fraud. They take a pride in sending forth their wines, just as they are made, to the public to stand or full on their own merits. If foreign labels are used on Calfornia wines to the extent that the New York Post intimetes, we say again that our wine manufacturers are not in any way connected with the fraud, for they can stand upon their own merits without any adventitions nid.

Our wine-growers meet, quite often, in conventions for the purpose of listening to the experiouce of each other regarding the hest methods of cultivating the vine for wine making. They, us a class, believe that wine making is destined to be one of the most important industries in the State. In the last convention samples of nearly every variety of grapes now cultivated were exhibited, and a free inter-change of experience was had. These plain between practical and observing men, serve to enlarge the general knowledge of those engaged in the industry of wine making. At this convention an old and successful winegrower from France, but now engaged in the business in California, remarked, that this rich new State does not afford a more certain future than can be found in grape-growing and wine-making. Another delegate said that the day is not remote when the grape will he a more valuable crop in California than wheat.

Arpad Harazthy, President of the State Board of Viticulture, stated recently, in the course of au article in the Sacramento Bce, that wine-making in California is a success It has taken, said he, twenty-five years to prove it, but it is proven now beyond a question. The most sanguine supporters of this pursuit, of a quarter of a century ago, have lived to see their prophecies verified. They can now look back with pride and contemplate labor, and rejoice at their final success. Mr. H. says that this once despised and belittled production has come to the front, driven away, not only from among ourselves but from the whole United States, the cheaper grades of imported wines, and are even now asserting themselves as rivals to the better class of French, German, Spanish and Portnguese In his opinion, it will take but a few years more to see all but the nobler growth of foreign wines retired completly from our markets. Mr. H. states that the importation of French and other foreign wines is diminishing every year.

There is no doubt but Mr. H. is correct in this statement. The wine export of California is evidently beginning to affect that of Frauce and other European countries. Statistics show that the French vintage of 1882 was 70,000,000 gallons less than that of 1882, and 360,000,000 gallons less than the average vintage of the last ten years. This industry, in California, has and attained its present prominence without encountering many discouragements and difficulties. Several prominent wine-growers have been engaged, for years, in developing thequality, and spreading the merits of California wines, for which they are justly entitled to a large meed of praise. The wine-growers have to congratulate themselves upon the exceptional prices they obtained for their crop at the last vintage. In addition to the 12,000,000 gallons of wine made last year, there was manufactured something over 600,000 gallons of brandy.

The President of the State Board of Viticultural Commissioners estimated, something over a year ago, the value of vineyards in California to be nearly \$35,000,000, and the annual income he placed at ahout \$3,500,000. He thought then, that within three years they would be yielding annually to their owners \$5,000,000, or ten per cent. on \$50,000,000 valuation. The future of the grape interest, all over the State, is certainly very promising. A large number of new vines are coming into bearing this year which, with the increased volume from the old vines, make it absolutly certain that the coming crop will be the largest ver grown in the State. As far as the field for grape-growing is concerned, it is being entered upon by many persons, of both large and small means, and new districts are being laid out and cultivated. 1u this connection, we will state that Governor Stanford is having his large ranch of over 3,500 acres, at Vina, Tehama county, planted with vines. He means to be the greatest grape-grower in the country. But we understand that R. Nadeau, of Los Augeles, is, at present, the brgest vineyardist iu California. Charles A. Wetmore, State Viticultural Commissioner, is of the opinion that one of the most promising fields for investment and industry is that of viticulture. He believes that a well-selected piece of land cultivated skillfully in vines, for wine-making, will yield an average of \$100 per acre, when in full bearing, after paying expenses. He estimates the cost of bringing a vineyard to full bearing, in good localities, including price of land, at from \$50 to \$100 per acre.

There are millions of acres specially adapted to vine-growing in the foot-hills and mountain sections, which can be bought at from three to ten dollars per acre, that, in a few years, will yield \$100 per acre. Now, we ask, in all caudor, at what other industry can a man make \$10,000 a year as easily as he can from 100 acres of grape lands? Why, the poorest man in the State to-day, if be is full of energy, patience and endowed with good bard sense, can earn money enough with which to buy the lond, at day labor, in a year. And he can, in the course of a few years, prepare and plant the vines and bring them into bearing.

It bas often been said, by those whose opportunities for judging have been good, that there is no land where the vine flourishes in such luxuriance as in California. The most favored portions of the costly vineyards of France and Germany, even in favorable years, do not equal that of our ordinary yield; aml it is, pobably, for this reason that the vineyard industry of our State has awakened such interest within a brief period. No other land can compete with California in the hountiful product of her vineyards. The magnitude of wine interest may be best understood when we state that it has now upwards of 120,000,000 vines. Concerning the progress stready made, and the rapidly increasing acreage of our vine yards, it is evident that the wine product of the State must shortly become one of the most important of our great staples.

everal Europeau and Eastern papers have, quite recently, spoken in high terms of Cali-They welcome them because fornia wines. they are good, and infinitely superior to some of those produced on the banks of the Rhine and other places. We could furnish abundant proof that our wines are not only appreciated at home, but also in the Atlautic States and Europe. The reasonable expectations which Californians have indulged in concerning the high rank which wines, maunfactured bere, would attain are being realized. We trust that the time is not remote when the State will be greatly enriched by the revenues derived from the exportation of her native wines

#### AN ENTERPRISING GENTLEMAN.

J. Pitcher Spooner, Esq., of Stockton, the cele-bruted photographer of that city, is entitled to the thanks of her citizens for the able manner in which he photographed the city for the ithustration our first page. In order to get this picture Mr. Spooner was obliged to take no loss than 80 negatires. This mork cost over \$300, all of which Mr. S. dounted for the sake of tuving his city correctly illustrated. We shall always have a good word for Mr. Spooner.

# POUTABLE ELECTRIC LIGHTER.

A Pertable Electric Lighter for \$5.00 is being extensively sold by the Portable Electric Light Co., of 22 Water Street, Boston. It is an eco-nomical and safe apparatus for lighting for home nnd business purpases.—Scientific American, New York, December 16, 1882. THE ILLUSTRATED TOURISTS' GUIDE.

Through the courtesy of its anthor, Max. BEN. C. TRUMAN (the well known and pleasant descriptive writer), we have received a copy of a very handsomely covered and neatly printed pamphlet of 250 odd pages, bearing the above title. It is profusely illustrated with engravings representing the natural wonders of the Yo Semite and the Big Tree region, points of interest along the coast and the mammoth botels. The book also contains full and accurate descriptions of all the celebrated summer and winter resorts in the State, with details of the routes thereto, rates of fare, etc.

'The guide is full of matter of interest, not only to the traveler, but to the general reader; it is a compendium of information touching the situation, extent, topography and attractions of the snu-set State. The care exercised by the writer in giving unexaggerated descriptions is worthy of all commendation. He gives all the information regarding the subjects treated, by both facts and figures, that any one could desire. In our judgment, this valuable work will do more to induce tourists to visit onr State than all of the other hooks on the subject combined. This may be considered, hy some, high praise; but, without intending to flatter the author in the slighest degree, w believe it to be true.

The author states that his object in writing this volume is to point out to the permanent residents of San Francisco, and to tourists visiting the metropolis, the many health and pleasure resorts lying upon and adjacent to the lines of the Central and Southern Pacific Railroads and their branches, and to present such descriptious of scenery, conditions of climate, location of places, character of attractions, curative properties for claims of curative properties) and analyses of waters of mineral springs, routes of travel and such other information as it might be possible for him to obtain.

The Itlustrated Tourists' Guide is the result of continuous travels and observations from May until December, 1882. All who read this hook carefully will readily conclude that Major Trumau possesses special qualifications for writing such a work.

This complete and beautiful volume was printed and published by H. S. Crocker & Co., of this city, and is reported to be the largest printing job ever handled in San Francisco, the edition being 25,000. The enterprise of the Central and Southern Pacific Railroad Compsuies is shown in an order for 20,000 of these hooks for free distribution. Three thousand have been sent to Anstralia, 1,000 to China, 2,000 to New York and 1,000 to Boston. Two thousand bave been mailed to all the prominent hotels, libraries, clubs and to noted Knights Templar. Five thousand copies of the edition will be sold by hooksellers at fifty The balance are being distributed to all first-class passengers between Carlin and Merced.

#### A HANDSOME STORE.

One of the handsomest stores in our city is that of Nicoll, "The Tailor," in the new Phelan block, on Market street. The display of cloths there is far greater than can be found in any other tailoring establishment in San Francisco. The proprietor, Mr. Nicoll, is a genial and polite gentleman, and so are all his employees. They guarantee everything to turn out just as represented. Pay the store a visit and judge for yourselves.

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LIBERAL ADVANCES MADE ON CONSIGNMENTS.

-AOENTS FOR-

#### Healdsburg X X X Flour

UNION MILL FLOUR.

#### HUMBOLDT AS A FRUITEUY.

Full one-half the width of the county lying next the eastern line is unsurpassed for the quality and perfection of fruit which it yields, and particularly is this the case with that territory which lies on the water-shed of the Trinity and Klamath rivers. perfection in growth and quality of flavor, this latter section is unequaled anywhere, it makes no difference whether you go to the southern end of the State, or refer to the storled orchards of the Orient. There is that combination of climate and acil on the Klamath and adjoining county, which has made it the home of the apple, the pear, the cherry, and other fruits that require like con ditions. There are great tracts of Government lands, upon which the plats have been recently filed, which can be had of Uncle Sam merely for the taking, at \$1.25 per acre. On the Klamath, the objection can not be raised that it is entirely beyond reach of market. It is, at present for fresh fruits, but we have the whole world for a market for dried fruits, and the Klamathaffords a natural, and cheap and easy avenue through which to reach it. The coat of placing such freight on the steamer wharf at Crescent City, would be comparatively amail, and the current of the river is available at all times fer flat boats and canoes,

Those who will take time by the ferelock, and plant orchards on the Klamath and Trinity, will have an independent income, measurably free from insects that devastate the warmer counties. we have sufficient snow and cold weather to destroy very generally, the larvae that a more southern tem ture nurtures into life. The Klamath is destined, at some future day, and not far distant, to carry a most important commerce to deep water, and it is truly a magnificent highway, "estly to serve a large, rich, and naturally productive country. The wealth for which it affords so ready a means of transportation, is diversified, and among the richest in the country, comprising mineral deposits mexhaustible in extent for this and the next generation; timber, the finest and best on the coast, and, what we consider above and beyond all this is what we have above mentioned—the production of fruit for which its espacity is measured only by the energy, industry, and enterprise of those who will avail themselves of the conditions and advantages offered. We firmly expect to live to see that section produce and export worth of fruit annually, carrying its traffic to mar-ket, on the waters of the Klamath, and that then it will be but at the threshold of its development .-Humboldt Standard.

#### SAN DIEGO'S CITRUS FAIR.

A writer in the Examiner of this city, who attended the Citrus Fair recently held at San Diego, has an article, in that journal, concerning the very attractive exhibition of fruit and other products. From it we quote the following:

Those who regarded San Diego as a barron country whose only resources consisted of climate bay and hope, were agreeably disappointed at the splendid display of fruits—citrus and decidnous made at the late Citrus Fair held at National City on the 13th, 14th and 15th of last month. A large hall, hambomely decorated with evergreens and flowers of all varieties, was filled with large tables on which was piled the most delicious uppearing fruit in bounteous abundance. Oranges of all sizes and varieties, from the little divarf Mandarin, no larger than a marble, to some that a truthful San Diegan tried to palm off on your correspondent for a new variety of squash. This was a slight exaggeration, but they were fully sixteen inches in circumference. Then there were all kinds of lemms, limes, citrons, and kindred fruits until the eye tired with gazing at them and the mind grew confused in attempting to carry the But the exhibition dul not consist of citrus fruits alone, for San Diego appeared deter mined to show at a glance what she was enpuble doing in the whole vegetable domain, and we found numerous varieties of excellent apples, unsurpassed in size or flavor by any we have ever Altogether, San Diego's third annual Citrus Fair was a most decided success, and was so pronounced by thousands who visited it, among whom were the editorial excursion party.

## TOBACCO GROWING IN FRESNO.

It is stated that a prominent and wealthy San Francisco physician has purchased a section of laud west of Freeno city, who proposes rnising tobacco on it. He has secured the survices of an experienced tobucco grower to superintend the work. About 200 neres of land will be prepared and planted this season.

The Fresno Expositor says that it has been demonstrated that tobacco grows luxurinatly on the irrigated lands of the county, and there is uo question but that the quality, when properly cared, will be equal to that grown in the popular tobuceo sections of the country. Should this plantation prove a success, the weed will be extensively cultivated here, as it is a very profitable crop.

A GREAT GRAPE CUTTING BUSINESS.

The St. Heleun Star says: Martin Kultenhach is the liou of the outting husiness of all this region, and of the whole United States as well, for no other man in the Union makes as muny as he. Mr. Kaltenhach, to begin with, is an old vintuer, and all his life has made a specialty of grapa viues He has lived here since '73, and has been furnishing cuttings every year since, to greater or less extent, farpishing in the last three years, including this, about 600,000. He now employs an average of 25 hands making the cuttings, who work nearly four months, from about November 10th to March 1st. His trade this year reaches the enormous amount of 3,000,000, enough to plant over 3,000 acres. These are distributed over Napa county and all the vine-planting counties in the State, to the East, and even to the islands of the Pacific. Of those 3,000,000, about one-third are Zinfandels, another third of the different varieties of Reislings, and the other third is made up of the Chusselas varieties, Burgundy and a few Burger. Mr. Kaltenbach thinks that people are running too much now to Ziufandels, because they are plenty and choup, and that they should pay more attention to the Black Reislings and Bur enndy. He thinks these latter varieties will herenfter take the lead of the Zinfundels. Has just shipped a lot of 5,000 to the Saudwich They are an assortment, and are for experimental planting in that country. Mr. Allen Herbert, of Honolulu, is the purchaser, and the shipment is made through Leonard Coates, of Napa. Besides these, the various large vintners of the valley are each furnishing large amounts. Mr. Crabb supplied, we are informed, at least a million last year. Mr Krng about the same, Scheffler several bundred thousand, and other parties very large numbers. Taken altogether, we should judge that Napa valley supplied enough cuttings, last year, to plant 10,000 acres of vineyard.

#### FINE HARD WOODS.

A correspondent of the Mexican Financier call-attention to the great quantity of precious woods which, he declares, exists in Mexico. He says that from the frontiers of Guatemala to those of the United States there is a vast domain, whose growth of cabinet woods he describes as truly enormous. Among the varieties of woods which figure most prominently in the districts along the Pacific and cossts, he instances mahogany, ebony, roses wood, ironwood, sandal and aloe woods, and cedar, Concerning the last-named wood, he says that the Mexican variety, in addition to its rich aroma, possesses a grain so time as to make it superior to many of the fine woods generally used in the markets of Europe and the United States. The only use hitherto found for the wood, the writer continues has been in the manufacture of cigar boxes. adds that, in burning lime he liss used, for fuel, rich woods, which could have been sold for good prices, if known in the American markets, Financier confirms the statement of its correspondent, in relation to the growths along the coast, and adds that, in the greater altitudes, bickery, hard cedar, pine, larch, oak, sycamore, and walnut flourish to perfection. It states that the rapid advance of railroads is daily making those supplies more available, and that for the encouragement of this industry, the various state Governments, as well as the General Government, are offering liberal c cessions to all who will utilize and further develop the lumber resources of the country. The Finan cier calls the attention of American capitalists to the matter, saying that there is a large demand in Mexico for ordinary grades of lumber, and that the Americans are not only large consumers, but also important exporters to Europe of the finer varieties cae latter, the Function concludes, can be had in Mexico, in any desired quantity and

variety.

The furniture of our new Hall of Records is mostly of Mexicun cedar, which is a very fine wood. There should be up lariff on timber of any hind,-

#### REAL ESTATE IN THE INTERIOR.

Real estate continues to look up in Bulle and Tehma counties. A correspondent of the Oroville Mercury says: A few months ago the owner of a small tract of land near Oroville placed the same in the hands of an agent to be sold for \$7,000. Last week a party came along in search of orchard land and offered \$12,000 In the growing towns of Rod Bloff and Chica hasiness lots cammand high prices, and the general outlook throughout Butte and Tehum, for future prosperity, is most encourag-

BUFFE COUNTY DIAMONDS.

At Cherokee, diamends and zircons are found in cleaning up stuices and undercurrents. The first notice of diamouds in this locality dates from 1853, the largest diamend, which was two and one-quarter (nine grains), is now in the passession of John More. There have been from 50 to 60 found from first to last; some were rose-colored, some yellow, others pure white, and all associated with zircens, platinnin, iridluin, magnetile, gold, and other minerals.—Butte Record.

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Adriance Buckeye Mowers, For 22 years the leading Mower of the World.

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Plade, so and Blod, ready to work, each, \$1.50; with

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WALK RIGHT IN,
Examine our New Styles, Prices and Quality, Civility to all. No trouble to show
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SAMPLES,

With Instructions for Self-measurement with our Gazette of New Fashions,

# NICOLL, The Tailor, Men's Furnishing Department,

Also invites attiention to his New Far-nishing Department - Is the largest slock of the linest Eastern make.

MEN'S UNDERWEAR, WHITE AND COLDRED SHIRTS, CASSIMERE AND BLUE FLANNEL DVER-

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Of the Newest Patterns and Improved Stytes, of our own manufacture and warranted structs. New Section \$15. Hoys' Sults, Overcoats, Cisters TENTION paid to putrons from the country.

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I RINCIPAL OFFICE,

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#### A GIGANTIC WAREHOUSE,

The tollowing, from the Contra Costa Gazette, concerning the construction of a limiting nearly half a mile in length, near Port Costa, by the honanza kings of the Nevada Bank, will give our resders some idea of the capacity of warehonses needed for storing grain:
The bare shore line between Martinez and Port

Costa, which is destined in time to be almost one continuous stretch of wharves, warehouses and factories, is already beginning to show some of its future importance. First came the coal hunkers, a large structure situated about a quarter of a mite np the shore from Port Costa. Now comes the Nevada Bank wharf and warebonses, at the foot of Lone Tree valley, about two-thirds the distance from Martiuez to Port Costa. Temporary buildings were constructed last week for the accommodation of workmen, and the first pile was driven on Monday. The Nevada Bank has seenred three wharf franchises at the place mentioned and it is the intention of the owners to build a wharf 3,000 feet in length, or about three-fifths of a mile. Up on this wharf will be creeted warehouses aggregating a length of 2,300 feet, or nearly one half s mile. A warehouse half a mite in length is cer-tainly a gigentic building; and when it is considered that this one warehouse (for the several warehouses, side by side, may be said to be reslly hut one long warehouse) will be but one of the many to be built in the next two years, some idea may be obtained of the immense trallie in grain of which this county is to be the center. The Novada Bank warehouses will have a capacity of 60, 000 tons. The wharf will be built in a curve, parallel with the railroad company's right of way, and will have a front go on six fathoms of water. There is, at present, but one pile driver at work, but there will be shortly ithree—two floating and one on trucks. It is probable that the space be-neath the warchouses will be filled in and a con-crete foundation laid. The buildings will be completed by July, in time for the first shipments of the coming crop. The Nevada Bank losns large aums of money on grain, and these werehouses will he used more particularly for the storage of and barley upon which money has been loaned. It will doubtless not be long hefore other ware-houses are constructed along the shore, and Martinez, Port Costa and Crocket will be eventually connected by a continuous line of wharves.

#### TIMBER CULTURE.

Here is a terse, timely and entirely practical suggestion from a cotemporary, which we desire to indorse, reinforce and make applicable to Los Angeles county. It is from the

"Can't every farmer in the county, some Saturday afternoon, when the horses are pretly tired of dragging the gang plow, give them a rest, and with all his men devote three or four hours to tree-planting? Any trees-locust, walnut, cypress, blue gum-anything to break the monotony of the landscape and make it beautiful, besides furnishing fence-posts and firewood in the near future. Do this, and within two years you will thank us heartily for the advice."

If such a practice were energetically inaugurated and energetically kept up, at proper seasons, for a few years, the whole surface of our treeless country would be transformed. The culture of timber would be followed not only by the good results pointed out, but it would have a large influence in warding off drouths and in protecting the sources and preserving intact the volume of our streams, which supply the life-blood to our soils and make cultivation possible where otherwise only an anid desert would stretch its repellant wastes. Let the spirit of tree-planting and timber-culture once take full and complete possession of our farmers and rancheros of the south country, and the good that would follow to individuals and the public in half a decado would be simply incalculable and immeasurable.—Los Angeles Mirror.

#### DEEP PLOWING

Messrs, George and Charles Cadawalder, capitalists, says the Willows Journal, who own a large tract of hand about five miles south of Willows, east of the railroad, have recently put in operation on their farm a plow that seems to do pretty good work. It plows about n foot deep. So ne of this hand is tinctured with alkali, but the deep plowing has developed the fact that the alkall does not extend much beyond the surface, first-class loning soil NICOLL, The Tailor, \$72 A week made at bome by the industrious. In the being thrown up by the plow. It is the opin-boys and girls wanted everywhere to work for use the many to time to the fundamental ways. He was the first of this land with the plow. At least it can be so mixed in with the good soil that it will not pay, by engaging at once, Costly ou'll and terms free, for made fast, pasity and honorably, Address.

The X as week made at bome by the industrious, being thrown up by the plow. It is the opin-boys and girls wanted everywhere to work for use was the ways of this land with the plow. At least it can be so mixed in with the good soil that it will not prove such an obstacle to the growth of vegetation upon it as it has heretofore proved to be.

#### SUB-IRRIGATION.

The fellowing we find in the San Luis Obispo Tribune

This system of sub-irrigation has been advocated by the most skilfull and scientific agriculturists in this country and Europe for some years past, and the success which has followed the trials has placed the system heyond the rank of experiment. G. G. Biggs, the most successful horticulturist in Califor-nia, tried the plan in an orchard of 150 acres in his, tried the pian in an ordered of 150 acres in Solano county, and says that the product was so in-creased in quantity and quality set to pay the cost of the improvement in one year. E. W. Steele, of Corral de Piedra ranche, one of the most entorpris. ing agriculturists of the State, is now introducing the system in his garden and lawn about his residence. Trenches, from sixteen to eighteen inches dence. Trenches, from sixteen to eighteen inches in depth, are dug at intervals of seven feet, and as long as required, to cross the piece of laud to be irrigated, and in these ecment pipe, four inches in dismeter, and of two meh open bore, is laid by a machine carried along by hand, making the pipe continuous, like a gigantic sausage. While the cement is still soft, holes are paneutred in the pipe, at intervals of seven feet, and in each of these at intervats of seven feet, and in each of these a perforated plug is inserted, through which the a perforated ping is inserted, through which the water, when let into the pipes, will percolate and Irrigate the ground. To protect these plugs from becoming stopped by the overlying soil, a coment cap is pleced over each in such a manner that the cap is proced over each in short a manager water may always flow freely. These japes connect with a main trunk, of four or six inches in dismeter, through which the suppty of water runs. The pipe of various sizes is made on the place at a small cost, and, when dry and set, becomes as bard as stone, and strong enough to hold a column of water of 50 feet pressure. Largo elsterns, distributing boxes, drain and sewer pipes have been made of the same, and most admirably answer the purposes. Mr. Steele has a perennial stream running through his place, and this he will turn late his underground pipes. However dry the scasen may be, there will be no sesseity of vegetables, fruit, or flowers about the pleasant home, and the greesy lawn will always bo kept green.

#### FEAR'S CONCERNING CROPS.

A writer in the Marysville Appeal, who has had a large experience in raising crops in several sections of California, thus expresses himself in regard to the fears that are annually expressed, concerning crup prospects

Since wheat-growing became a great industry in California, there has probably not been a single season in which a greater or less number of people did not find occasion to express "fears as to the condition of the crops." If the winter be wet, condition of the crops." If the winter be wet, "fears are expressed" that it will prove too wet; and if the winter be dry, then "fears are expressed" that it will prove too dry. If the season be a happy medium between wet and dry, then some "fears are expressed" of drought, and other "fears are expressed" of too much wet, according to the fearest and the temperament of the persons expressed. fancy and the temperament of the persons express-ing the 'fears.' One thing is always certain; it is that "fears" of some kind are always entertained, in regard to the condition of any growing crop in California, "Fearing" has grown to be a custom of the California agriculturist. Ranching in this State allows considerable leisure after the seed is put in the ground and winter plowing done, and the interval of leisure between seed-time and harvest is always more or less occupied by entertaining refers." In the winter season the rancher who prays is either praying for more rain or for alet up, while the rancher who "cusses" is "cussing" either the dryness or wotness of the weather. These remarks, of course, are not intended to apply to the farmers in Yuba and Sutter counties, where drought la never known, but yet, even in this favored section, a few chrome "fearers" may, perbaps, he found.

# APPEARANCES IN THE COUNTY.

The editor of the Sanla Bushara Press thus describes, briefly, what came under his observation during a recent visit through a portion of his

A most dotightful trip recently up through the Goleta showed the country to be illourishing. The crops are all looking well and the soil is mellow and in fine condition. There is considerable good and in time condition. There is considerable good pasturage, and wheat and barley promise very en-couraging crops. Col. Hullister's ranch is in excel-lent condition. The 45 men employed, under the supervision of the proprietor and Mr. James, permit no weeds to find growth there, or no spot to remain uncultivated. The Colonel has cut down the line of gum and cyprese tress that stood in front of his house, obstrucing his view of the ocean, This has improved appearances very much. The late cold weather has injured the lune trees. Only one or two remain on the place in healthy condi-tion, and these only where they were protected. Many of the almoud trees are being out down also, giving more room to the walnuts. The orange and lemon trees are in splendld condition. The trees are very heavily loaded, and the fruit is improving in flavor. They will commence picking lu about two months, as the crop is luter this year

#### GILRDY PEARS,

From the Gilroy Advocate, we lake the following items;

The first Eastern shipment of pears from Gilroy was made in 1878. The purchase was made from our local orchardists, through the agency of Hornee Willson, for the firm of A. Lusk & Co., San Francisco. In the following year, 1879, the pear grop was a failure. Parter Bros., of Chicago, bought, through Mr. Willson, in 1880, about 600 boxes; in 1881, over 700, and in 1882, within the past few months, 800 boxes. Porter Bros, have also purchised, through George Wentz and W. Wall, about 300 boxes, and other parties have shipped about 300 more. From 300 to 400 hoxes of Burtlett peurs have also been shipped to Sun Francisco and San Jose canneries, making the total surplus crop for home and Eastern markets. nearly 2,000 boxes. From the foregoing it will be seen that the pear crop is increasing annually. All these pears were grown in Gilroy, San Felipe, and San Juan, places which appear to be specially adapted to their cultivation. The pear will flourish whether the water is near or far off from the surface. On wet hand the apple tree dies in a few years, or becomes worthless. On dry land it lives longer, but the fruit is small and tasteless, and, we may add, worthless. But the pear free will bear good fruit, under the same conditions, and its mar kel price will average three times more than If the price and demand in the futhe apple. ture should be equal to the present, the pear is the most profitable truit to raise in Gilroy and vicinity. vicinity. Of the winter varieties, the Winter Nellis and the Easter Beurre take the lead. The Bartlett and Beurre Hardy are the leading full pears. Mr. Willson says: "In my bumble opinion, the Gilroy fruit is as good as any, if not the best, grown in California; but ' adds, "many orchards are worthless, because of the starvation disease. Trees require food as well as animals, therefore wash and manure them well, and your return will be an hundred

#### COPPER MINING.

A correspondent of the Bulletin of this city, makes the following reference in regard to the copper mine at Spenceville, in Nevada county

About twenty years ago considerable attenlion was paid to copper mining in California. The business, however, was never advanced beyond the first stuges of production. No attempt was made to reduce the ores, and so get a merchantable article for shipment and home use. The ore was taken out and sent to this city, at considerable expense, and then shipped to Boston and Swansea for reduction, business, as then carried on, was abandoned long ago. Within a few years, a copper claim in Nevada county has been worked, with a fair degree of success, but nothing beyond copper This coment cement bas been produced there. is shipped by railroad to New York and Bultimore, where it finds ready sale. Last year this mine paid its first dividend, at the rate of five cents per shure, or \$2,500. The Company paid six of Ibese dividends between March 1, and September 1, 1882. There were no dividends paid in the last funr months of 1882. The seventb dividend, of the same amount, was paid this month. This is the only copper mine now in operation in the State, of which we have any knowledge. There is one in Arizona that did well last year, and another, in the same Ferritory, promises well this year.

#### NEW ENTERPRISES.

The Robnerville Herald, Humboldt county, is of the opinion that prosperous limes are close at hand, for Eel river people. It says: When the railroads are commenced, affording employment for every idle man and team in this portion of the county; when a branch road winds its way along the meanderings of Strong's creek, into the immense belt of timber which lies cast and south of Felt's Springs, and a sawmill, with a cutting capacity of 100,000 feet a day, is in motion, Rohnerville will assume the importance to which she is entitled by location and the resources which surround her. The time has arrived when our people should, by every means in their power, encourage and foster every enterprise within their reach. Don't wait for averything to come which we are by nature entitied to. Help them to come, by every honoruble inducement.

SUBSCRIBE for THE RESOURCES OF CALIFORNIA.

#### A WONDERFUL VINE.

Charles Dondero, 535 Washington street, San Francisco, has received two large packages of valuble seed from the Department of Agriculture at Saigun, Cochin China, which may prove its excel-lence for adaptability to our soil. The seeds are that of a tuberous annual vine which has been discovered in the wilderness of Cochia China, and its cultivation is rapidly becoming general in that country, both for table and wine purposes. The berries equal, it is said, in size, taste, and flavor, the best Burgandy grape known. It contains about the same percentage of alcohol as the native Bor-The wine from it is said to be delicious. and the fruit relating and patritions. The plant dies annually, but produces itself from the tuber, The germination of the seed requires from two to three months. It can be done in pots. This vine is cultivated exactly as our Lima hean is. It needs stakes to sustain it, just as our grapevine does. The vine delights in a warm, light soil, partleularly in moist regions. The tuber is protected from winter frosts by covering it with straw, or manure. This vine is not only easily propagated by seed, but still more by shoots, of which the tuber produces many. These are carefully siparated from the mother stock, with one or two of the many roots, and planted. This operation, which performed by any ordinary laborer, strengthens the mother plant, preparatory to its crop of fruit, and furnishes all the cuttings the vineyardist may wish to set. The great productiveness of this vine may be judged by the fact that, is ordinary scasons, in its native country, each vine bears from 180 to 250 pounds of the grapes, in clusters from three to nine pounds each, the agason being from June to the middle of November. Mr. Dondero will furnish, we understand, the valuable seed to those who may wish to give it a fair trial, in the interest of the State. There is no doubt that the tuberous vine can be cultivated advantageously, with proper care at the beginning, in nearly all the wine counties of California .- St. Helena Star

#### A RICH FIND.

Considerable excitement has been created in the vicinity of Yorkville, in this county, by the reported discovery of a rich silver ledge on the ranch known as "Dutch Lowery's" where J. S. Cox and a force of six men are at present delving away, running a tunnel into the mountain side. The discovery is said to bave been made several months ago, but the secret was kept by the few until quite recently, when the work being carried on now was commenced The lunnel has already been run in some 20 feet, and a well-defined ledge struck, and the finding of the ledge so soon, and at so short a distance from the entrance, together with the rich appearance of the rock taken out, has produced more excitement and talk in that usually quiet neighborhood than was ever known thereabouts before. If the reports coming from there are but balf true, Mendocino will soon be known as a silver-hearing county, and her wealth and resources will be estimated far in excess of what she can now boast. For the good of all concerned, we trust the new mining district will be developed as one of the ricbest over discovered .- Mendocino Dispatch.

#### RAPID IMPROVEMENT.

The Fresno Republican says: Five years ago Fresno was just beginning to be talked of as a place of possible importance. Fruit and vine culture were yet an almost untried experiment. To-day Fresno is known in every hamlet in the State. Her cheap wooden buildings are rapidly giving way to massive and elegant blocks, and five and elegant residences are taking the place of small, temporary buildings. Her fruit and vine interests have grown immense proportions. The signs of prosperity and vigorous growth are visible on every hand. This rapid development has exceeded the expectations of the most sangaine. The possibilities of the future are now rated much bigher than they were five years ago, but we believe that developments of the next five years will be a greater surprise than those of the past. They will be of such vast proportions that those who contemplate them most closely can now bucilly realize them.

#### NOT OVERDONE.

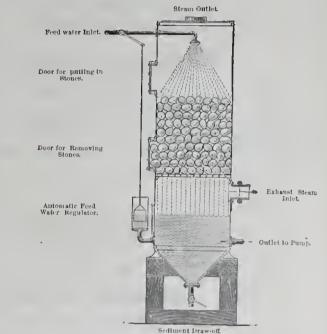
There is no reason to suppose that fruits are being overdone in California, if orehardists will raise only the lost varieties and psekers will do their part in regard to selection of material, cure la preparation and give full weight. Prices, it is true, may fall somewhat, lone every reduction in price will increase the demand, by aringing out canned fruits within the ordinary reach of intliging out canned fruits within the ordinary reach of intilious of families in this and other countries, who now look upon them as inxuries, but if they were a little cheaper would use them as staples,—S. F. Mer-ohant.

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oun make great poy all the thin, will a for particulars to
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#### THE ANGORA INDUSTRY.

We had a call, the other day, from Mr. Nathan Gilmore, of El Dorado county, who has long been known as a breeder of Angoras. Mr. Gilmore believes that the goat business is promising much more than for some time. Although the price is low, there is a ready demand for all the medatr. There has been a period of depression, but it it miw improving. The same rule holds in this industry as in all others. Mr. Gilmore emphasizes the need of using first class animals as breeders. In the breeding of all animals you will find inferior ones heing produced. Why should goats be any excep-The same rule must apply to the breeding of goals as to other animals. There has been enough mistakes made ahout goats. I bave always taken the motte that is this, as in all other breeding, "like begots like." If you want to get a high standard, you must use a high standard, of course rejecting inferior individuals, even though their ped-Nineteen-twentieths of the men who have been breeding goals, having been using poor bucks, the result is, they have produced more hair, rather than mobsir.

Mr. Gilmore informs us that his fleece last year was sold all tngether for 47% cents a pound, without any selections. He shipped off last 2,000 best, and no division in the grade. Three years ago bo wrote to Kuching Brothers, and they said that if he had anything, to keep it; that they had 30,000 hs, in their warchouses. Now they have not a pound The price is not large, yet there is an actual demand for it. Mr. Gilmore has just received a letter from Kitching Bros., New York, saying that they are out of atock of mohair, and that consignments will sell readily.

Mr. Gilmoro states that, notwitbstanding everything has been said to discourage the business, it bas been still going on and getting a foothold, and he expects that, when the price comes up for mohair, a good deal of mohair will find its wayout. Pelts have averaged about 60 cents aplece. The receipts in the county of El Dorado, from pelts, mutten and mohair, have amounted to \$25. It has been scattered among a great many people, and the money has been quite a help with the return from other crops. He believes that, considering the number of gosts that have been imported to this coast, and the bands they have been thrown into there is no interest that has mide more rapid strides than the Angora industry, and it hids fair now to be heard from, in a very satisfactory tray,—Rural Press.

#### DRY SEASON.

There is much talk about a dry season, and much doleful speculation is indulged in, expecially by constitutional croakers, who afflict every community. As a matter of fact, the Santa Ana valley is much hetter prepared to withstand a dry season than most other portions of the State. A scaoty rainfull means short crops of huy and barley upon our mesa lands, and this is the main extent of the actual dumage to crops. We shall have a much larger orange crop than has year, estimated as high as 50,000 boxes, worth at least \$70,000. Let ns say we pack as many boxes of ruisins as we did last year (and the probability is that it will be much larger), they will be worth at least \$30,000. Lemons and limes, say \$2,500. Wine grapes, wine and brandy, say \$12,000, which, we think, is a low estimate. Hogs. \$75,000; hops, \$25,000; eggs, \$22,000; corn, \$40,000; pointoes, \$6,000; fruits, \$5,000. There will be no fullure of any of the above products, on account of the limited rainfull. There are numerous other productions and arlicles of export which we have not mentioned, which will swell the grand total to at least the figures of last year, which we took pains to gather carefully from reliable merchants. In round numbers the figures were half a million dollars. Let us hear no more dismal croakings about a dry senson,—Santo Ana Herald.

#### FRUIT GROWING.

The Stanislans county News says: It has been generally believed fruits and vines had to be irrigated. Experiments teach that this is nut necessary in the rich hottoms of the Stanislans, Tholmone and San Josephin rivers. Mr. Stephen Rogers, an enterprising farmer, is putting out an orohard and vineyard. He bus already 14,000 young trees growing in a very healthy combition. He will udd about 2,000 more this year. He grows his own seedlings and does his own grafting so he is certain to have the very best varieties and most healtby vanes. He will this season put out 10,-000 vines. His experiments lend to show that grapes growing entirely too thrifty on the tirst linitom but that the second would be better. He measured one vine that grow 21 feet in one senson. He intends to increase his orchard and vineyard until each cover 100 acres.

#### A BUSY TOWN.

The editor of the Dixon Tribum thus speaks of the town of Winters, Yolo county, its business outlook and future promise;

Being called to Winters on some business matters during the early part of the week, we took necession to converse freely with the business mea, concerning the Intere prospects of the place, and, without exception, found them exceedingly impetal. It is a presty village, of some 600 or 700 inhabitants, beaulifully licated, in one of the healthiest and most bertile sections in the State. As our readers are all aware, Putali creek is the northern binodary of Solano county. Winters is situated on the northern bank of Putnit, and, sithough it part of Yolo county, it is firmly wedded to Salano county, not ouly in point of bustness interests, but the popula-tion is in a great measure made up of old Solano-ites, who cast their fate with the new town upon its very first inception, and who are still loyally cling-ing to its fortunes, with firm and unshaken faith in its future. The country surrounding Winters, is justly classed among the most fertile and produclive in California. There are acveral large and productive orchards and vineyards in the vicinity. The first vegetables in the market are shipped from this point, and the wheat yield is something mar-velous. It is also in the very heart of one of the best stock ranges in the State, so that the natural resources of Winters can truly be said to be very great. An idea of the estimate placed upon land for farming purposes can be formed from the fact that on the day of our visit, Mrs. Rainsay, formerly of Green valley, took possession of a farm for which she paid at the rate of \$175 per acre. The people of Winters also have great faith in the allimate construction of a railroad through Putah canyon into Napa and Lake counties. Surveyora are now in the field, and if this route is finally determined upon, there is an question but that Winters is destined to become a town of great importance. The business men of the place are illsplaying considerable activity. We noted many improvements now in progress, and many more are contemplated if the season proves favorable main streets bave been graded and graveled, and shade and ornamental trees are rapidly springing up.

#### SANTA CLARA VALLEY.

In every direction in this valley may be een the results of cutting up the small forms. Huudreds of homes have already been made on five to twenty acres of hand, and this year the process of subdivision is going on more rapidly than ever. At every turn trees are being planted, wells are being hored and preparations made for more new homes. And this is the right use for such a valley as this. It was made for the purpose of providing healthful homes for people of education and refinement. Its fruit trees and vines can be cultivated without much hard labor, and these products can be unde to maintain their owners in comfort and independence. It is not too much to say that ten acres of land in this valley, well cared for, will yield as much actual profit as a hundred acres in most other parts of the world. And the work and expense of caring for the one is really but a little more than a tenth part of what is required of the other.

These facts are becoming known in all parts of the country, and thrifty citizens are flocking hither to escape from the dreary routine of hard labor in the Eastern States, to the comparative ense and independence offered here, People of intelligence also desire to escape the Arctic rigors of the winter, and the equally disagreeable and debilithting effects of the hot summor. And every one that comes sends for his friends and neighbors. There is no dissatisfuction, and indeed he must be hard to please who is not suited with the conditions of life here. Of course there are few chances to make fortunes, but wise men know that money is in nn seuse to be compared with health and comfort, and they make their arrangements accordingly .- Sun Jose Herald.

#### THE DANGER IS SMALL.

The Los Augeles Express snys: In the course of twenty years there has been only one really disastrous season in the county. In the main its crops are assured. Our vast wine and fruit interests are as near absolute safety as can be, for the vineyards and orchard are crigated. Much of our hand is damp ciencys, independent of ram, where allishs is a sure crop and duiries are like a gold mine. Our messas only suffer in our partially dry seasons, and we can stand one dry in twenty. Ten inches of ram, owing to our preculiar soil and climate, if it comes all proper seasons, will mature a crop of grain and grass. This is the only thing with as ever in jeopardy, and the danger is small.

#### SEMI-TROPIC PRODUCTS.

The Los Angeles Express of January 10th, had the following interesting items:

The ontrome for the current crop year of three Sonthern California products will show some of the sources of our prosperity and the foundation on which our future is based, First, of oranges this region will send to markot from January 15th to June Ist, 1883, not less than 200,000 hoxes. The sum may reach 250,000 boxes. These sell at from \$1 to \$1 per

Next of raisins. The crop is estimated at 100,000 boxes for last year, and sold at \$f.75 to \$2 per box. This crop is steadily increas-

The third item taken is wine. The following table gives the output for last year:

Gallons,
Anaheim 775.000
Santa Ang 100,000
San Gabriel Winery
Oucamongo 100,000
San Bernardino 150,000
G. Dulton 10.000
T. Leahy
Valla 45,000
Nand. Weyse & Co
Kohler & Frohling 500,000
Stern & Rose
E. J. Baldwin 20,000
J. Ramirez 10,000
W. H. Workman
J. Moran 10 000
J. A. Barrows
Mrs. Muller 15,000
Tononi
J. Kiefer 15,000
D. Mahlstedt
Total2,895,000

There are besides the above many small wine makers who do not appear here. These would materially increase the aggregate. There will be distilled not less than half a million gallons of brandy which will consume two and a half million gallous of wine.

These three industris are still in their iufancy. Each year will make a large increase in each product. These are only three of all the rich products of our soil. The world might be challenged to show an area so prolific, so varied in its capabilities, so mild in climate and so certain of its crops.

#### FRUIT CANNING.

Few people have a correct idea of the magnitude of the fruit canning husiness in California. In value it will soon equal that of the cereal production. Last year the fruit trade of the State reached the onormous sum of eight millions of dollars, or nearly forty per cent, of the value of the wheat crop, and about fifty per cent. of the entire production of the gold mines. The yield of precious metals is diminishing every year, while the grain and fruit yields are increasing. It is to the products of the soil and manufacturing industries that California must look for her intore wealth. The grain-producing capabilities of the State are known, but its fruit growing possibilities are as yet only partially comprehended. The investment of capital in fruit-canning establishments, in various localities, is having the effect of encouraging fruitgrowing ventures. Many farmers have discovered, and many more are coming to the conclusion that there is much more profit in an acre of orchard or vineyard than there is in several acres of grain. Although fruit-raising is only on the threshold of development, last year's marketed product is worth eight millions of dollars! What it will be in the course of another decade remains for the future to reveal .- Stockton Independent.

#### ORANGE SHIPMENT.

As showing the growth of the orango business in the Santa Aua valley, we will state that in 1878-0 the shipment by rail consisted of 404 boxes, weighing 31,152 pounds; 1879-80, 1,623 hoxes, 107,407 pounds; 1881-82, 20,-000 boxes, and for 1882-83, the estimate is 30,-000 hoxes at least. It is probable that the estimate will be largly exceeded, as the trees are bearing heavily this season. It was calculated by those competent to judge, that the ordinaljata of the Santa Ana valley received about \$40,000 for their fruit last season. These figures show how astouishing has been the growth of orange culture in our valley, and thousands of trees will come into bearing in a short time.

The bulk of the aranges raised in the Souta Ana valley are of good size and quality, and will command good prices in all markets .-Santa Ana Herald.

A GOOD WORD FOR BUTTE COUNTY.

The following is from a late issue of the Sutier county Farmer:

Satter county yields the crown of excellence to no county in the State, but she accords to Butte her nustinted praise for her good people, and her valuable and productive agricultural lands. We may look the State over, and nowhere can be found better land, better soil, and better climate than in Butte county. The fruit of every climate grows to perfection within her boundaries. Her grain fields are nucxcelled, and her people are open-hearted and generous We were led to these reflections by actual experience on our visit to Chico, (tho Gem of the North), a month ago. At that time her early-sown grain fields had already turned green, and the farmers were lussily engaged in turning up the deep, black soil, to be sown to grain. Our party, Judge Messick, I. N. Hoag, of Sucrumento, and the writer were the guests of General John Bidwell and his estimable wife, and while there we were permitted to see the magnificent farm of the General. We have neither the ability nor the space to say what we wish, concerning this immense farm. be appreciated, it must be secu. It had been eleven years sinco wo saw Chico; in that time it had grown from a little village to a city of at least 5,000 inhabitants. She has graveled streets, and several pure, crystal streams flowing through her town, or on her borders. Her people are engaged in many and various business pursuits, and also in manufactures. Sho supports three daily newspapers, and several weeklies. There is visible, on all sides, an air of contentment.

#### FRUIT CULTURES

The supply of California raisius last year was of excellent quality, while the quantity would have been very large, but that a great deal were destroyed by rains while curing. As usual, early in the year, the most exaggerated estimates w made of the crop.

The following table shows the number of boxes of California raisins manufactured during the past seven years: 1876, 40,000 boxes: 1877, 25,000; 1878, 70,000; 1879, 70,000; 1880, 70,000; 1881, 95,000; 1882 100,000.

The increase in production is not so great as many would desire, but it is large enough for the present. It is better to go slowly, and have all that we send to market of a uniformly good quality. The importation of foreign raisine this year, as all others, show a decided fulling off. On the ther hand, there has been a considerable increase in the imports of currents, primes, and citrons. Large quantities of walnuts go east, but there has movement in particular of almonds, of which there has been more than the demand, Primits have been short. Profits have, in many

instances, been light.

G. W. Meade & Co. estimated the product of California of the following lines for 1882: Dried peaches, 800,000 pounds; pears, 100,000; upples, 1,000,000; apricots,200,000; turnies, 500,000; h 1.100.000; walnuts 600,000; almonds, 200,000,

The sale of California dried fruits, raisins, etc. are increasing. The total value for 1882 will reach are increasing. The total value for 1832 will reach mearly \$2,000,000. Average prices were: Raisins, \$2 ½ box; dried peaches, 7½c, ½ lb.; pears, 7c, ½ lb.; phuns, 11c, ½ lb.; apples, 4½c, ½ lb.; apricots, 12½c, ½ lb.; prunes, 10c, ½ lb. There has been an improved demand, from all parts of the East, for the dried fruits and raisins of Culifornia. Sales are about twenty per cent, in advance of last year.—Santa Ana Hevalil.

#### SONOMA COUNTY'S ADVANTAGES.

In speaking of the destination of intending immigrants the Sonoma Democrat says:

We may reasonably calculate that Souoma county will receive no little attention. Its and seasonableness must attract the attention of many strangers. They will see that here is a district of country the fertility of whose soil is unsurpassed, and where there is no failure of crops, and this must bring many among as in sourch of homes. The reports that we print of the sales of real estate show that properly is already changing hunds at a lively rate, and, unless we are mistaken, the volume of business in this direction will increase from this time forward. The present is a most auspicions time for large handholders to throw their hand on the market in small tracts to suit purchasers, for they will surely be sought after, and nothing will repel immigration except in ability to seemro such property us desired. Sonoma has last to follow the example of Los Angeles to stund in the front rank as a rich, prosperous and populous county.



BROAD GAUGE.

#### Winter Arrangement.

Commencing Sunday, Oct. 22nd, 1882, And until further notice, Passenger Trains will leave from, and arrivo at San Francisco Passenger Deput (Townsend St., between 3d and 4th streets) as follows:

S. P.	DESTINATION.	-{	ABIIIVE 8. F.
† 6:50 A. M. 8:30 A. M. 10:10 A. M. 3:30 P. M. 4:30 P. M. 6:30 P. M.		. i E	6 40 A M. 9 05 A.M. 10 02 A.M. 8 27 P.M. 5 04 P.M. 6 02 P.M.
8:30 A. M. 10:40 A. M. 4:30 P. M. 4:30 P. M.	.Santa Olaca, San Jose and Principal Way Stallons.		9:05 A. M. 10:02 A. M. 3:37 P. M. 6:02 P. M.
10:10 A. M. 3:30 P. M.	.Gi)roy, Pajaro, Castrovilleaui Monterey	. 11	10.02 л. м 0:02 г. м.
10:10 A M.	. Hollisler and Tres Pines.	чŢ	0:01 P. M.
10:40 A. M. 9 3:30 P. M.	.Watsonville,Apins,Soquel snd Santa Cruz	. [ ]	6:02 P. ST.
10:40 л. ы.	.Salinas, Sotellad and Way	$ \overline{ }$	6:02 г. м.
*Sundays Train).	excepted, tSumlays only	r (8	3portinen's

Slage connections are made with the 10:40 A. M. Train except Pescalero Slages via San Mateo, which con nect with 8:30 A. M. Train.

Ticker Offices.—Passinger Depot, Townsend street and No. 2 New Montgomery atrict, Palace Rolel, A. C. BASSETT, H. JUDAH, Sperthrendent, Asst. Pass. & Tht. Agt.

ma, rto., leaves San Francisco delly via Costand Ferry foot of Market street, at 9.30 A. M

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#### Will sail from San Francisco.

ARABIC			Tin sday, April	101h
OCEANI	C		Saturday, April	2181
COPTIC			Thursday, Mu;	y ⊒.(
AHABIC			Thursday, June	UMI II.
OCEANI	C		Tuesday, July	101h,
COPTIC			Saturday, July	2181
ATLABLE		9	aturday, September	16rh,
DECKANI	C	T	hursday, September	27th,
COPTIC			Thursday, October	11th

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Cabin plans on exhibition and passage tickets los sale at C. P. R. R. Co.'s General Offices, Room 74. Corner Fourth and Townsend Streets.

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T. H. GOODMAN, Gen'l Passenger Agent

LELAND STANFORD, President

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Oldiffer under Twelve years of age, Balf Fix Under Five years of age, Free.

100 possesses of linggage par full Passengel free. 50 pounds of linggage per half Pas senger, free.

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Faut of Markot Stead, San Francisco,

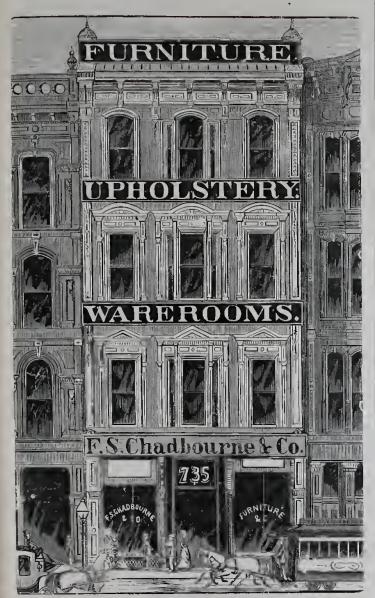
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741, 743 and 745 Market Street, - - - San Francisco, enlivation, and a substitution do not depend altogether up supply of water—Pisalia Delia,

#### VALUABLE LAND.

The Pomona Times has the following, regarding the price and productiveness of huds in its immediate section, Los Angeles county:

A young man can make no better start in life than by investing his carnings, whether they he small or great, in real estate. Ayonng man who is the owner of even a few acres of land in Southern California is an independent nam, and, by using a little industry and economy, he lins a positive assurance of a comfortable income for the remainder of his life. It is not necessary in this country for a man to own an immense domain of land. We know men in this county, who clear every year, from \$1,000 to \$1,600, from ten acres of land. Fruit raising pays even better than that. One of the favorable features of Southern Colifornia is that the land is destined to be divided into small tracts. The result will be a larger population, the hand will be better cultivated and more highly improved, and will yield from a given area, much larger amount of produce. There are, accusionally, persons who seem to think that \$75 to \$150 and \$200 per acre is too high a price to pay for land. These seemingly high prices have had, and will continue to have the effect of division and settlement of the land in small tracts. We do not, however, consider the prices we have named too high. We believe there is no better investment than land at those prices. The bearing orchards and vineyards of Southern Colifornia, when properly taken care of, pay a handsome interest on an investment of \$1,500 to \$2,000 per acro. Land that will do that, or even half so well, and any of the good fruit lands of Southern California will do it, is cheap at the prices we have named. A young man of steady, industrions, and temperate habits, can, in a few years, be the owner of ut least ten acres, and with that amount of land he is independenthe will have a good home, a comfortable income, and will thereby feel a greater interest in himself and his country.

#### A WOOLEN MILL WANTED.

From the following, which we take from the Livermore Herald, it will be seen that a woolen mill in that enterprising town is very much needed:

A small woolen mill, to cost from \$15,000 to \$20. 000, would, if properly managed, yield in Livermore Valley, with our cheap tuel, water and trans portation, an income to its owners of fully two and a half per cent, per mooth. In no other place in California could a mill be run as cheaply as here; and nowhere else are the wool-growers themselves so able to build one. The sheep men of Lirermore Valley could to-morrow, if they wish, or rather if the matter was placed before them in a proper light, pay into a common fund a sufficient sum huild and equip a woolen mill equal to the needs of this section. All that is needed is that one of thoir number, in whom they have confidence, and shall first investigate the matter, go and lieft their subscriptions. The mill should be built by wool men, and controlled by them. By thus controlling every branch, from the production of the wool by their own flocks, from the grass upon their own ranges, to the turning out of the woven cloth, dyed and ready for sale, they could secure for themselves all the profit which is now distribnted among balf a dozen railroad corporati and a dozen mannfacturers, lobbers and middle men. There is no reason why the combined woolgrowers and manutacturers of Livermore Valley should not themselves secure and retain profits. The outlay is not large, the return is certain, and all that is needed is notion.

#### A FRUIT CANNERY WANTED.

" When will a fruit caunery be established in Visalia?" is a question which has been brequently asked of late. It is a bard conundram. We give it up. We will answer that a frut cannery should be established in Visalia this summer. The opening here is a good one, and capital could not be invested to better advantage. Wheat raising will not pay. is no question about it. Furmers in this county must turn their attention to something else if they hope to pay off mortgages, live comfortably and scenre a support for their declining years. When once a currery is established fruit will be raised. When a local demand is created the supply will be adequate. Irrigation will not of itself remove the troubles of the Tulare county agriculturists. There must be a departure from beaten paths, a sceping change from the present methods of enltivation, and a substitution of crops which do not depend altogether num a bountiful

#### AHEAD OF ALFALFA

Some of our citizens are interesting themselves in the Arabian millet. Extensive planting of the seed is being made in Tulare county upon proof, on the dryest of the soils there, that it surpasses alfulfa. James Morton, of that county, says of it: "We think it is as far abead of alfalfa as alfalfa is of the wild grasses of California." The roots are known to go down in the earth from five to fifteen feet, The Los Angeles Times says of the sample at "It grows to a height of from six that office; to eight feet, resembles the orchard grass in appearance, and is greatly liked by stock of all The New York Tropic says the experiments in New Jersey soil and climate, sowed in May, in drills eighteen inches apart, at the rate of four pounds per acre, in twelve days the plants were up so that he ran a cultivator between the rows, after which no cultivation was possible, owing to the astonishing growth, which crowded down every other vegetation. The first cutting was made July 1st., just 45 days after sowing; it was then seven feet high, covering the whole ground, and weighed, while green, 30 tons to the acre, and dry, six and onehulf tons per acre. The second cutting was the 15th of August. Its height was then nine feet, weighing green 55 tons per acre, and dry, eight tons. There has been a positive want, on the part of stock-raisers in the valley, for a grass of something of the character of timothy, to feed at certain seasons alternately with clover. This has been so much a necessity that portions of the farm have been left aneultivated in salt grass, and it seemed that the stock paid more attention to the course grass than to the alfalfa. The evergreen millet, from all reliable accounts, is destined to take this place, and this valley should be supplied with it without delay .- Kern County Gazette.

#### FARMERS' PROSPECTS.

From the following, taken from a late issue of the Petaluma Courier, it would seem that farm prospects were never more favorable in that section at this season of the year;

Grain is growing finely. The cold snap was of great henefit to it, as it gave it, by the setback, a heavier root and prevented the tops from growing too fast and rank. We have had for the season nearly 11 inches of rain, and this with the almost constant fogs, have kept the ground in splendid condition. The weather is now as balmy as spring, and since the last warm rains all nature has put on a hroad grin. The dairy season is nunsually promising. Many of the dairies in Marin county, notwithstanding the long spell of cold weather, are now averaging one pound of butter a day to the cow. Stock of all kinds is generally in better condition than usual for this season of the year. On the Laguna, in Marin county, two or three new hop fields will be planted this spring. Mrs. L. W. Walker is setting out about twenty acres, I. R. Jewell will add about twenty acres to his present field of fifteen acres. Churley Murtin will also put out quite a large field. Mr. Pepper, and other nurserymen in this section, inform us that the demand for fruit trees and vines was never so great here as it has been this sea-Of many varieties, all the stock suitable for planting has been taken from the nurseries, and they haven't a tree on hand. Furmers have made more improvements on their farms, the past year, than any previous year since our settlement. The whole country bears the appearance of thrift and prosperity, and the general outlook in all this section could not well be more promising.

#### POULTRY RAISING.

One of our prominent and successful ranchers has furnished as with the result of his efforts in keeping thoroughbred poultry. From thirty-tive hens of the brown and white Leghorn variety he obtained, from January 22d to February 6th, 435 eggs, and the hens are still laying as vigorous as ever. His system of feeding is as follows: Bran stirred up with hot skinn milk every morning, wheat in the afternoon, plenty of burnt hones and clean water. He says: "I have tried the sornh, it dunghill, variety until thoroughly satisfied that they are not worth having around the place. It pays to keep the very best of poultry and live stock, as well as the best of wheat, and many of our furners would be surprised to see what a good table can be set by the prafts of keeping blooded poultry."—Gridley Herald.

#### THE CALIFORNIA TROUT.

There are several varieties which go by the name of the California tront. The differences between them are not radical, and arise, probably, from the influences of locality, rather than from natural variation. The differences appear principally in external markings. The fish of highest develop-ment are found in the McCloud river, from which they take their distinctive name. They are the true raintony trout, having a hand of bright red, like the irts, slong the whole extent of the lateral The mountain trout have the same marking, but in fainter that. In some species it is hardly perceptible. It has been noticed that in wild waters this tint is much more strongly brought out than in fish confined in artificial ponds. fish escape from the Calculonia and to the open The influence of and of the change to natural food, largely ernets ceous, is observed, not only to the brighter colors, but in the greater vigor and more rapid devel-

In producing and raising from helpless infence some of the fish tribe, art may surpass nature; but only by a return to the ways of nature at the period when helpfuiness succeeds helplessness, can the

best development come.

The early history of our stock of California trout was given in the commissioner's last report; but the circumstances are of such interest that the story will bear reproduction and continuation.

In 1875 the commissioners received, from s friendly correspondent, 500 eggs of the California monntain trout. In due time these produced 300 fry. They lived and grew to be spairners.

At the age of three years, and when they had reached the average of a pound weight they cast their first spawn. The product was 64,000 eggs. The neual per centage of these hatched, and, with these hatched, and, with the exception of 17,000, kept for breeders, were distributed throughout the State. In the spring of 1879 there were still living, of the original stock, 260 fish. Having increased in age and size, they gave a larger yield of spawn than in the year previous. Their production in the last-named year was 94,000. Three thonsand four bundred of these were retained in the hatchery. The remainder ent ent for distribution on orders. Our stock breeding fish of this variety is now 30,000, and the expected yield of fry this year is 3,000,000 to 4,000, 000, all of which are already covered by orders, and the cry is still for more.

The spawning season commences about the first of March, and continues till June. They, therefore, afford what the brook trout does not, good antumn fishing.

The California trout is, in its structure, pretty much the counterpart of our brook tront. It has not the carmine spots which distinguish the latter, but has the same dorsal markings, a elightly more forked tail, and the same color and texture of flesh The general external color is a silvery green or olive, mottled with irregular apots of a black or darkish color. Along the lateral line is, as has been already stated, a marking of red, of varying distinctness, according to habit and bebitat.

The field is one of remarkable vigor and hardiness, It will thrive in water which, to salmon and brook tront, would be certain death. It will hear rough handling with comparative impunity, and bruises on its skin, which, in other fish, would be followed by fungus and death, make, apparently, no barmful impression. It is an active fish, and, though it will thrive in either lake or river, loves best a swift-running stream, and the most thoroughly aired water. It is a voracione feeder, but its testes are as delicate as others of the trent family. loves best to take its food alive, and cannot resist the temptation of a struggling grasshopper or nuller, no matter how full its maw may be already, No fish is so certain as this to he attracted by the artificial fly. It does not matter much what the may be, so that a motion is given fo. In its greed for insect food it to resemble life. ee no account of sessons, and will rise as reality in January to a red ily, when it is bardly possible for a natural fly to exist, as in July, when the surface of the water swarms with insect life. It grows with nearly double the rapidity of the brook trout in the same water, and is, of all fish whose habitat is exclusively in fresh water, the most suit able for the large streams of the State of New York, like the upper Hudson, the Cennesco, Mohawk, the East and West Canada ercoks, the Moose Black, and Bear rivers, and all other streams which over-much fishing, dams, saw-mills, and other destructive agencies of human contriving have spuilt for good trout fishing. Whether it can eminro the on of tanneries has not yet been tested. If It shall be found to stand this last desperate test, to which all others of the trout family have succumbed, it will deserve to take rank with the immartals.

The only unfavorable criticism which has been made on this fish is that they are not good keepers; that they rapidly soften after killing, and do not bear transportation well. This may be a disadvan tage or an advantage, according to the standpoint from which it is considered. The residents in the neighborh od of tront streams do not care to have all the stock shipped to market; they want some for their own use; and if Call.ornia trout will not bear

transportation, there will be all the more to eat at home. No fish anywhere or ut any time is as good as when fresh caught. The complaint of softness, we think, does not apply to all California trout, but to such as are caught out of season or in very mlid waters. The quality of all trout is very much effected by the character of the water which they live and by what they feed on. Speekled trout caught within a few spawning time, and after spawning, till they re-cover vigor, will be slimy and soft and tend quickly to putrefaction, and those that five in shallow water with muddy bottom and feed on leeches and lizards, are never good kerpers. Every one who has done much front fishing will have observed Every one who that fish caught in a running stream especially if the stream be one much subject to the influence of rainfalls, soften minch more quickly than those laken in lakes. Even on a good spring stream the angler will cometimes observe the ribs of the first trout protunding before the last has been put in his On the other hand, the whole day on the lake will be smooth and hard. Culifornia trout, in this respect, will not differ materially from any other trout .- Report of New York Fish Commission,

#### PLANTING AN ORCHARD.

The following, by a correspondent of the Inyo Independent, contains much valuable information those who are about starting new fruit oroborde.

Fruit culture will be largely increased in this valley, to meet the increasing demand by home and neighboring markets. Having assigned a portion of ground for an orchard in some sheltered place, well protected from the wind, we manure the he kent up in a young orchard for a few years, or until the trees are well established, and begin to cover the ground with their shade. When the between them will be occupied by branches so as to no longer admit cultivation with the plow, then we have to resort to the spade,

# THE PACIFIC COAST AND ITS SUR-ROUNDINGS.

A traveling correspondent of the Bulletin, of this city, in the course of a long and interesting article, thus speaks of the immense territory which is tribntary to the Pacific:

It is the country which, 50 years ago, nobally in the older States wanted-the country which Lewis and Clark explored, and hunters and trappers a ensionally saw. It is a territory larger than that occupied by all the States east of the Rocky Mountains. We do not ourselves know its full extent. No aurveyor's chain has ever measured Alasks, and we have hardly explored New Mexico and Arizona. Then, there is Mexico, with its 10,000,000 of population, which is being Americanized, and in way prepared for a membership in the great family ol States. We hardly grasp the fact that in the territory tributary to the Pacific there is room for larger population than is now included in all the States of the Union. The new empire will be greater than the old one, or rather the cluster of States facing or tributary to the Pacific will become more important than the States facing the Atlantic.

It may take a century to work out the result; but at the present rate of development, half a century bring about this new relation. The Pacific States are far richer in patural resources than are the older Atlantic States. Timber, minerals, agricultural products, fisheries, climate-these are all

As the country fills up with population, the stage As the country this up with population, the slopes done land jobbery which has been rife in all to country tributary to the Pacific, cannot be ble No futelligent population will long remain ated. No luteringent population and long reads passive under such evils. There is no place in the country for the safe development of the hadder ism which has so long cursed Ireland. A population without land and without bread is always to the eve of revolution, The Pacific States will be exempt from evila of this kind, because, for at least half a century to come, land will be comparalled their a certary to control of the saddest far about such a country as Ireland is that there are a new homes to be created. The most impiring he new homee to be created. The most inspiring fig about this great and undeveloped cruntry facial the Pacific, is that there are millions of home to be created, and these very opportunities at inviting population to come in and create them,

#### YOLO INDUSTRIES

Mr. R. B. Blowers is one of our model fruit med-Grapes with him are a specialty, but he is largely engaged in growing a great variety of other fruits He has 60 scree pianted to vines, the jongest of his vines being two years old. Every sansy that can be profilably grown be bas, and bas erps imented with many varieties that have not protect a success. His opinion, in regard to grapes, b, perhaps, worth as much as any man's la the His Seculless Sultans be regards as one of county the leading grapes, because it is good for both was and raisins, the wine from them being somewhat of the character of nur imported champagnes, and the raisins baving a peculiar flavor that make then apperior for pastry to the muscat. He has grown from vince six years old, seventeen tons per a the Sultana. When planted from cuttings and tro years old, they yield with him about four tons pr acre, and rooted vines, of the same age, will neld eight tons per acre. One of the adventages be ba nver most other men, in regard to irrigation, u that he furnishes himself with water from a system entirely his own, which he has constructed to the last two years. From a well twenty feet in diam ter, and by means of machinery that he employs, using straw for fuel, he can pour on any part of he land 150,000 gallone of water per hour, or little more than 3,500,000 gallons in 24 bours piece of ground, containing six acres, he flooded entirely with water in eight and one-half home This water, if sold at the price the present Board of Supervisors fixed for water for the purposes of in rigation, would yield bim a revenue of \$2250 per hour, or a daily income of \$225 for each ten hours or a monthly revenue of \$5,615 for each 25 days.

He regards the Emperor is the best for gape shipping, as it will remain fresh for a long time. and can be ehipped with profit, at fair rates of freight, to our Eastern cittee. He has eight acres of this variety, and they will yield from twelve to fourteen tons per acre He is largely engaged in the mannfacture of raisins, and by mease of a dry honse of his own invention, is not entirely depend ent apon the sanshine to prepare his products for market. He has, in his packing house, the first packing tray ever used in the State. The floor of this room is of mannfactured stone, cool, class and moiseless. He uses every kind of ferningthe offal from our livery-stables, our slangble-bouses, and the sabes from all our factories where wood is hurned, Hs has now 2,500 bushels of ashes ready for distribution, which contain the equivalent of 7,500 pounds of potast. This be deems necessary where enttings are sold from the ground, to replace the properties of which the sol bas been robbed. He intends to use a mill m crush the bones from the slaughter houses, at be will be able to do this with the power he has alread in use, cheaper than he can reduce with scids



ORANGE GROVE IN SAN BERNARDINO.

ground well, and then plough it in; then harrow it | better, and will be for t00 years to come, than were down as level as possible. Then mark it off in two directions, so that the intersections of the furrowa stall come at the etstions for the trees. This is the best way to dig the boles, for the furrows can be made quite deep enough. Indeed, it is not a good plan to set the trees too deep in the ground. a good plan to set the trees too deep in the ground.

I advocate planting on the surface, or as they grow
naturally in the norsery. The distance between
the trees depends on the variety. Some will require more space than others, but I have always advocated close planting for these reasons: In the first place, it is now conceded that the land appropriated to the orehard should be given up to trees, and not be used for other crops. Therefore there is less necessity for space between them, close planting the whole ground is shaded and kept from baking, and thus remains more loose than where exposed. The erowding of the trees also them, in a great degree, from severity of the cold in winter, and from the injury incident to the audden oftanges in our climate; but in exposed situations this close planting especially shelters them from the trying while of, this valley, and our late frosts in spring. The planting of a fruit tree is the most important part to he observed, and the greatest care should be taken to place the roots in their natural position in the hole, which should be large enough to admit the tree's roots without eramping; then put the surface soil to the fibers, and work it is amongst them with the hands, so as to bring it in contact both believe and above the rnots. When the roots are well covered with soil, then a slight pressure may be made with the foot at the end, of the roots. If the ground is dry, it may require a few quarts of water poured upon the routs to settle the sell, and this should be covered with dry earth. All that purion of the tree which was under granted in the narsery must be covered when transplanted. Cultivation about

ever known to the North Atlantic States. Now, growth depends upon a number of conditions. But, first of all, there must be something to develop -something to invite the enterprise and labor millions of people. Why is the center of population continually moving further west? It is be there is a great country beyond, which invites enterprise and development. That is the reason that three or four great continental railroads have That le the reason been pushed into the witderness and across the continent to the Pacific. That is the reason that a road from New Orleans to Paget Sound needs only a single link to day to make a perfect chain up and down the Pacific Coast, for nearly 4,000 miles That is the reason that reads are pushing across the Republic of Mexico. The Atlantic States, look ing westward, face the oldest civilization,

The Pseific itself has more resources in it than the Atlantic. To-day more wheat ships rendezvous at the port of Sun Francisco not yet known to the commercial world for more than 35 years, then tound at any other part in the United States, treasure has been shipped from the Pacific States—that is, gold and silver taken from the mines—than has ever been shipped, by way of produce, from all the rest of the continent of North America,

This undeveloped country is to-day one of the the most interesting feets in our national life. There is an element of safety in room for expanslon. Land abuses, which have been many and great, have not been severely telt. It is estimated, by one writer, that not less than 100,000,000 nercs of public land have been wrongfully appropriated by ratiroads and other corporations. There is so much lami left that the less is burrily felt. Besides, land cannot be destroyed. The ownership is changed every the years, and 1,000 families are finally planted isture only one or two hold possession. This one last, buwever, is of a grave nature.

#### SALE OF THE GRIDLEY ESTATE

The following, from the Chico Record, of March 6th, will give our readers some ideas of the raise of land in Butte county:

The sale advertised by the Trustees of the Gride estate, to take place at the town of Gridley yelded day, was attended by an immense unmber of prosons, and bldding was spirited. Some of prominent capitalists and land-owners in the Sak were present, most of them from the San Josqua valley. Major J. W. B. Montgomery parthasel 800 acres of the land, for \$32,000. H. Scammer thought 960 acres for \$22,320. Major Marks
Biggs purchased a half interest in the Gridley float mill for \$12,000 from the Trusters, and inimit diately purchased the other half from L. C. Store This afternoon, in front of the Bank County, the Trustees sold a valuable tract of land. belonging to the Rancho de Farnell. contains t,900 acres, and lies along the Sacramento river. This piece is known as the "Rearls Bend." It brought a good price, being sold to Mr. E.C. Singletery, of San Jose, for \$13,450. The purchase will receive \$1,000 for the rent of the year, Houry C. Silver and C. E. Grilley war high bidders for this piece of property. The purchaser is one of California's great laud kings, also counts this farms by the thousands of a free. sold that he has taken a fancy to tintle countribands, and will endeaver to purchase some of our large ranches.

april to go to, either for health accrest from business Four miles west from Arroyo Grande we come to the sea, where the Pismu landing is, A new wharf is built, over which vast amounts of preface are annually shipped, and millions of feet of humber received. It is through the energy of Moherin Bros, that this wharf was built. To say the least, it is to be a great shipping point for this action of the country.

About midway between here and San Luis Obispo,

on the Corral De Piedra ero k, are the inities of the Pacific Asphaltum Company. The deposits are Pacific Asphaltum Company. The deposits are large, and yearly shipments are made to San Francisco, to the extent of 500 tons, by railroad to Port Herford, and thence por. Pismo wharf. The company's wo-ke have been established sinco 1865.
While here we had the pleasure of meeting W. S. Sommervell, the senior partner, and in company with him, visibil these famous deposits of asphil-Quicksilver, gold, silver, and chrome found in different parts of the county. In fact, San Lais Olispo conuty has unlimited resources awaiting capital and labor to unlock their doors, which will repay them well, if they invest in the undertaking. To C. H. Phillips, Esq., and others, we owe much for assistance remiered in our efforts to show up the resenrous of this, one of the most wonderful and rich in undeveloped resources of any county in California.

#### PROBUBLE YIELD.

We believe the grain crop of Stanislans county will this year except 6,000,000 husbels. We have

our estimate from the estrmated yield of former years For the past fifteen course entive sensons we have higured on the grain product of our county. We think that we have uniformly approximated the yield quite close ly. We have not as yet had time to look excefully over the entire aren of the county. Much also depends on the seloon from mow on till the 20th of Mny. When we say exceeding 6,000,000 larshels we aim to be contions, and mly enlyulate on an average favorable spring season for the growth and maturing of grain. The seast The season of 1880 heaviest wheat yield. That year, es-pecially the latter part of our ramy sensou, was exceed ingly favorable. Our esti-mate for that year was 7,500, ,000 landels. The yield on the West Side of the San Joaquin was that year exceedingly prolific. Our m formation at date is to the effect that the West Side prospects, whilst in a meas ure flattering, is not up to the standard of 1880. In the eastern tier of townships we find the acreage sown in grain is in excessof what it was in 1880. Through the middle part of the county good judges inform us that the cultivation of the soil is much better as a whole

much byttyr as a whole than it was in 1880. The benefits of earyful tillage, springing from the experiments of such men as heyburn, Park, Dabe, Bungs, and Bailey near Salida, in the seasons of 1874, '75, and '76, which Salida, in the seasons of 1874, was at the time carefully and faithfully reported in the News, has spread quite extensively over the We now begin to realize the benefits of good cultivation. At one time, probably, our farmers were the most sloven cultivators of the soil in the State. We believe they can now begin to lay claim to being inning the bost. This superior cultivation is having a nuncked effect upon the production as well as the prospecity of the e toaw, isyen unty From such conclusions w at this early day, believe we can lay the claim for Stands as wounty of being the humer wheat producing country in the State. At least we shall for the present place her probable yield at from 6,000,-100 to 7,000,000 lookels of wheat and barley.— Standans County Nors

### WHITE PISH FOR LAKE TAHOE.

The Rena Guzette, a short true ago, stated that Mr. Gifford, from the California State fishery, arrived in Truckee, it few days ugo, with thirteen large lish came filled with Michigan white fish from State butchery, which his progression to deposit larke Tahoe Mr. Gillord stated that is one ID Jacke Tshoe bad of corp from the East will be appeariously out Among the different likes and streams, and that the extra would doubtless be remembered; that they would be deposited only where public loding was allowed, and that all the lakes and pondain this ction of country would receive a share of the stock.

#### LAKE COUNTY.

Mineral Springs-Fine Climate-Quick-silver Mines,

Vineyard Lands and O her Agricultural Resources,

1tly the Traveling Agent of The Braodness 1

Lake county, California, is located some 75 miles due north from San Francisco. It is binneded on the north and north-west by Mendecino, on the north and north-east by Colu-a un the south by and on the south-west by Sunoma county, while Yoln corners it on the contheast. Laky is one of the smaller countries of California, having an area of 621 000 avres of surface, and in ahape it is nearly a perfect oval.

Labe county possesses certain a centiar resources and attractions which are sure, in time, to make it famous and prosperous. At present it is somewhat isolated, as there are no railroads touching the county; Caludoga, the terminus of the Napa branch of the Caldernia Pacific, bring some twelve miles from the south line of the county, and Cleverdale, the terminus of the San Francisco and North Pa-R., being some fifteen miles from the we line of the county. There is, at present, a feir prospect of this road being externit d to Uhish, (the county seat of Membicino county), a distance of 25 miles; and when the people of Lake county build a road from Lakepurt, (the county seat of Lake county, a distance of eighteen to twenty miles,

of the finist minutain scenery in the State, are local d in the north end at the county; at the foot of these labes is one of the finest resorts on the coast, kept by Theeslore Densing.

#### Streams

Cache creek, a clear, sparkling stream, is the outlet of Clear links. Putch and St. Helena creeks himl in the south rapportion of the county. Middle and Clear creeks, was beautiful little streams, empty into Clear like. One branch of Cache creek heads up in the northern portion at the county, and has a conso of some 25 miles within its bordvrs. There are an merous offer small mountain streams, such as Scott's, Adobo, Kelsvy, Coal, Sugar, Scda, Hunters, and Hernden creeks. Sa we might say larke is one of the hest watered conn-

#### Mineral Springs

Lake county is becoming one of the must popular summer resorts of the coast, on account of her numerous minoral springs, the waters of which possess great modicinal virtues. There are a great number of these springs that are being improved with line butels. Some of the most nuted of these and best known abroad ary Bartlett's, Highland, Harbin's, Pearson's, Sieges's, Allen's, Witter's, Haward's, Adams', Thermal, and Anderson's, but there are hundreds of others whose waters are very fine, and which will become famous in time. A large number of invalids and health-seekers visit these springs annually, the number centiming to increase, year by year, as they become better buewn. By universal consent, the scenery of Lake

capper, soda, alabastor, mangamese, manicis. polassa and ashestos; these constitute some of the geological fermations of Lake county,

Volteys.

The agricultural portion of Lake county is composed of a large number of to antiful little valleys, embracing in all about 120,000 acres. The principal of these are Big valley, Long valley (on either side of the lake), Burne's valley, High valley, Jernsalem, Jerico, Cayote, Cayay, Lower lake, Loco-noma, Cobb, Donovan, Sentt, Bachelor, Upper lake, Clover, Squaw, Irwln, Gavely, Rice'a and Paradise valleys, comprising the very best land for wheat, barley, pats, potetoes and vegetables of all kinds. These valleys are well watered; and, in this county there is never my occusion to use artificial means in insure good crops. Farms generally do not exceed 160 acres in extent. The hills that surround these valleys are composed of the best soil for grapes; and wherever, especially in southern Lake, experiments have been tried, the vines have provid very hardy, productive and remunera-The mean temperature of the climate is higher, and there is less early and late frosts than in some other vinvyard counties in Culturnia. So great are the capabilities of Lake county in this industry, that the attention of capitalists is already directed toward it.

#### The California Agricultural Improvement Assurbition

Is a corporation that has done much in developing the viniculary and limit interests of this county. Mr. R. K. Nichols, the Suberintendent, took the

pams to show us over ,these lands, vinhearing some 3,800 arres. They consist of a kind of volcaute, valeareous tufar, and are rich in hims. In their natural state they are covered with scattered oak and pine trees, and thick with underbrush and surface lime rock Mr. Nichols has a systematic way of clearing these hinds by digging out the trees, removing all the rock, brush and rocts; then by deep plowing and cross playing gets the surface in the finest condition for voices and truft trees. This company oow have a vinetaril of 160 acres of two-year old vines, which are all of the choicest foreign varieties; and they are putting in 160 acres more, together with 2,000 Hongarian primes and large amount of other nits. They have 117,000 (rante. rooted cuttings to be planted this spring. Some of their young froit trees ere just coming into bearing; have about ten acres of land devoted to the raising of all classes of vegelables and garden fruits, which are sold to the miners of the various quicksilver mines. This company also own large tracts of land in various portions of the county, but their improved hands are located in the vicinity of Lower lake.

Fruits of all kinds, such as apples, pears, plums, apri-ents, perches a mit prunes, do

remarkably well here; most of the orchards are young and just coming into bearing,

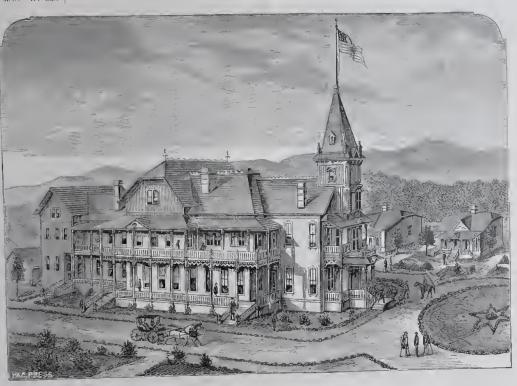
Shvey-rasing is not the principal industries of the county; the extensive range afforded by the monutains and font-fulls make this a profitable business. Owing to the mildness of the climate, sheep are very healthy, and, as a consequence Lake county produces exectlent wool.

#### Lockeport,

The county seat, is the largest town in the county; it is lineated on the margin of Clear lake, on the It contains about 1,000 inhabitants. The town is beautifully and picturesquely slusted; the ascent from the lake is gradual for several blocks, when a succession of mound-shaped hills is making magnificent sites for residences, commanding a splendid view of the take and surrounding mountains.

There are two broke doing a general banking business: the Bank of Lake, F. D. Tunts, president, and the Farmers' Savings Bank, J. W. Mackell, The Farmers' Business Association is conduoting a targe business in general merchandiso, onema a targe member to general merchanoso, hardware, and agricultural implements. There are several other large general storys—Semiemore, Reynolds & O., Levy & Levin, S. A. Gully, groceries and provisions; Geo. A. Lyon Jr., dealer in books, stalbuery, etc.; O. E. Phelan, a tringist, the also the consumerating general propolarity. who also keeps a variety of general merchapitso; Geo, H. Farce, hardware; A Biggi, jewelar, and A. There are a Cohn & Son, general merchandhe. number of ether smaller business houses, parsi-ing nearly every branch of the mercuntile business. The Bee Democrat, published by Crank & Jack sen, is a very good head country paper.

Green's-the principal hotel is kept by W. W.



VETERANS' HOME, TO BE BUILT IN NAPA VALLEY, CALIFORNIA.

to that point, it will bring their county into direct communication with other parts of the The Vaca valley and Clear lake Rallroad railroad The world. is now completed to the lower end of Capay valley. a beautiful agricultural country, following Cache creek up Clear lake valley, the principal agricultural pertion of Lake county.

At present there is stage connection, via Calisga, by Fisher's line, to Lakeport, via Muldle-wn, Glyn Brook, Luwer lake and all the springs. loga, Also, ma Cloverdale, by Samlerson's stage line, unt Hopland, Ukiah, Upper liske and the springs, through Lake county. This company run a line (daily) from Cloverdale through Memberine and Humbeldt counties to Eureka, California.

The general topography of this county is rolling and hilly. Lacated in the Coast Rango of intains, in the extreme north end, is Mount St. John, one of the highest points in the county; it is some 4,000 feet above sea-level, Cobb mountain, in the southern part of the county, is 4,502 feet high; and Konoeti, sometimes called Uncle Sam's Mountain, situated in the central portion of the county, is 3,983 feet above the sea.

Clour Lake, From which the county derives its name, lies nearly From which the contray derives he it me, the hearty in the middle of the county, and forms one of the principal features. This lake is about 30 miles in length, and from three te ten miles in width. It lies in a not theasterly to a sunth-westerly direction. Ites in a not the steamers, and numerous pleasare-boveral little steamers, and numerous pleasare-boats ply upon its crystal waters. Talo and Upper, two small lakes in the merit-west pertion of the enunty, are really continuations of Clear Lake.

Hune Lakes,
Two beauliful little lakes, wedged in belween some

county is awarded the palm, as being the grandest in the State. To the lever of nature, in its rugged, as well as in its softer and more pleasing aspects, this county possesses an unequalled variety of landscapes to please the eye-combining lofty mountains with valleya which are fair to look inpon, and a magnificent sheet of water embosomed in their midst. No lonrist who comes hilberward can fail to admire the extreme beauty and grandeur of the panerama as first viewed from the summit at some of these mountains, the beautiful lakes lend such a fascination to the scenery. But the great charm of this locality is its pleasant and healthful climale, The winters are never severely told, nor are the summers oppressively warm. From November to April, much rain usually fulls, and lee occasionally forms; but during this period, there are days and weeks when the sun shines hrightly, and the weather is perfectly delightful.

Mineral Resources.
The senthern portion of the county is skirted by a semi-circle of rolling hills of a metamorphic ero taceous rock, rich in deposits of cinnabar. extensive quicks liver mines are now being worked. Two of these, the Sulphur Bank and the Great Western, are extremely rich. There are several other mines that are rich in this mineral, but are unl worked on accennt of the low price of quick silver. Large quantities of snipling are also shapped On the east side annually from these mines. On the east side of Clear lake is Bornx lahe, where that mineral is front in its mnd, and line heen quite revenue to its owners. Gold and sliver are also known to exist, bushles various other minerals, feldspar, usion, llumatione, oxide of iron, Jasper, basalt, trap, lava and blue sandstone pelrifaction, Green. Manual Cottage and Man'z's hatel, knot by J. M order afford maple accommodation for the people of Lakemort.

One flouring mill, owned and run by M. Starr, formulas a good quality of flour for the people of the surrounding country,

Bogg & Harbin own some 4,000 acres of timter land; they saired 1,000,000 feet of lumber in 1882, and they asamate the standing any tunber of county, which is principally pine, at about 150 000,000 text.

Lond, within a radius of five miles of Lakeport is valued as tollows: First-class agricultural and improved hand at from \$30 to \$75 per acre; serondrate, from \$45 to \$55, and third-rate, or grazing land, from \$5 to \$15 per acre.

About seven miles anoth-west from Lakeport, we

#### Kebayellle.

Which is situated in Big Valley, one of the fluest agricultural sections in the county. This place contains about 100 mhabibility, and has two hotels. A. Sloeum has a large general store. Clendenia & Bro. are also in the mercantile business. Besides nne ilrng store kept by Dr. J. T. Boon, and several smaller stores, it has three carriage and wagon shops, the most extensive of which is that of W. M. Noble, three sturch buildings, a public school, two hatels, one of which, the Uncle Sam, is kept by M. A. Home, and in the vicinity are the Kobsey Flouring Mills and the pork-packing establishment of W. Stonebraker. The county in this vicinity is thickly settled with well-to-do farmers, and as they do most of their trading in Kolsevville, it will always make it a place of considerable trade, The surrounding country is all fine farming land. valued at trom \$50, and some of the best improved farms as high as \$100 per aero.

We now pass on about seventeen miles, in a southwestern threatnen, to the extreme south end

Lower Lake, Which is situated about two miles from the lake, place of considerable trade, it being the market-place for the Sutpline Bank mine, in the immediate vicinity. Here, are also several flue productive valleys. This town now contains about 700 inhabitants, and is a place of considerable en-harprise. The finest school-building in the county is located here. Mr. R. Wells keeps the Cosmopolitsu hotel, and also the only drug store in the C. C. Barker is proprietor of Del Mont M. Levy & Bro. bave a large general store; Getz Bros., also in business in Sen Francisco, have a similar establishment. One live newspaper, the Balletia, is published every Saturday, by J. B. Bacens, Jr. One brevery and a number of husiness houses, also a clinich and a fine Misonic and Odd Fellow's halt, are in the town.

In this vicinity are located some of the finest grape and fruit lands in the State. David Voight's vineyard, now in full bearing, is within one mile of the town. Mr. Voight is making some of the fines! monutain wines in the State; thus demonstrating the future value of these lands which, at present, can be bought quite ressonable,

In the extreme south end of the county, on the stage line between Lakeport and Calistoga, the terminus of the C. P. R. R., and about eighteen miles from the latter place, we come to the viltago

#### Middletourn.

Which is a place of some 300 inhabitants. Several of the quicksilver mines are located in this vieinity, which are the chief aupport of the town. There is considerable timber in this region, and some of the finest steep-ranges in the county are here. C. M. Young keeps the principal hotel; D. Lobe & Co. have a large store. C. W. Armstrong keeps a drug and stationery store. These constitute the principal stores of the place. Ford & Rawsou's saw mills are located in the vicinity. Several car-riage and wagon shops are doing a lively business. A large number of teams pass through this place, from the upper country, to the railroad at Calistoga. J. M. Hamilton is doing quite a live business in real estate. He is selling grain-farms, Iruit farms and sheep-ranges in different parts of the county. Land in Lake county is held by United States patent, with the exception of three Spanish grants that have long since been settled and subdivided,

Upper Lake,
Situated shout one mile from the upper or northern
portion of Clear lake, contains about \$50 inhabitants. It has two good hotels, two saw mills, several general stores, two churches and a good school.

It is in the midst of a fine agricultural country. Large amounts and is a thriving little place. ope are being planted in the immediate vicinity Here, on a large farm, resides Mr. Benjamin Dewell, who came to Csliferma in 1845. He was the man who made the celebrated hear thag at Souoma; this flag is now in the possession of the Cal-ifornia Pioneers of Sau Francisco. Mr. Dowell is quite famithar with the early history of our State, and corroborates meny of the important events, recently published in The Resources, which we obtained from Gen. M. G. Valtejo, who lestill residing at Bomma.

Sometimes called Salphar Banks, is located at the | few days with twenty stamps,

southpastern end of Clear lake, and contains about 150 inhabitants, who are mostly engaged in the mines. This company shipped 11,500 flasks of quickelver in 1882, and are producing from 300 to 100 flasks per month, at present.

4:1on Brank,
A beautiful place situated in a little valley 28 miles above Calistogs, and thirteen miles from Middletown. This is one of the fluest summer resorts in the county. A number of cottages, a flue orchard, pure mountain mr, good limiting and tishing, are among its principal attractions. Bussett & Sons are

Fish. Olear lake abounds in perch, pike, silversides, blackfish, sucker, and lake trout. White and catush are also making their appearance in the lake, they having been sent there by the Pish Commissioners some seven years ago. The streams flowing from the mountains have plenty of brook front; but the best fisheries for the favorite game fish are the recesses of the mountains, where ardinary tourists do not penetrate. The fish from the lake run upallthe tributary streams, in the spring, in vast quanti There are no salmon in the like, but in the northern pornou of the county-in the headwaters of End river—they are shundant. The perch is a favorite fish, but it is only caught in Clear lake, or in some of the smaller lakes of the county. This fish never migrates, to any extent, from the lake, and only bites during the latter part of April and during May and June. With the exception of brook front angling, there is no sport equal to that of fishing during the season of perch,

#### Wild Grane.

Ammig birds, canvas-back, mallard, teal and other kinds of duck are, in season, very plentiful on the lake. Wild goese also resort here in winter. Quali and doves are found in all parts, but especially in the northern section of the county.

Wherever there are forests of fir, grouse are surely found, as welt as mountain quail. Woodduck, muthers, lynx, foxes, 'coons, wildcats, bears, otters, and mink also should be added to the list, In fact, there is no county in the State where game ecislly fist, of all kinds, is more abundant.

Lake county is well supplied with tumber, consisting of several kinds of pine, hr, and oak, the latter in great abundance, and furnishing inexhaustible supplies of cordwood and tankerk

What Lake county most needs is railroad communication with other parts of the State; then this favored district, with its invigorating climate, beautiful scenery, torests of timber, mineral deposits, pastures that afford grazing for bundreds of thousands of sheen, sunny hillsides, the natural home of the grape, tine fruit and vegetable lands, lands that are yet cheap, will become known. When we consider atl the natural advantages of Lake county, we are compelled to believe that her future prospects are very bright. This is yet a comparatively new county, and many of its resources are but partially developed; yet it is so near Bau Francisco, the great commercial center of the Pacific Coast, that ouce it is tappod by rail, then will thus county change as by magic.

#### THE CALICO MINES.

From the following, taken from the Grass Valley Union, it appears that Calico district, in San Bernardino county, is very rich:

S. P. Blade, who lived on the Comstock years ago, has been prospecting in the Calico mining district, San Bernardino county, which is now altracting a great deal of attention. He says the mines are all turning out high grade ore, and holding out well. Several sales have recently been made. W. Stevens sold a claim for \$14,000. He was sent there a year ago without a dollar, and leaves with \$20,000. Wm. Raymond, who made the purchase, also bought a mine in the Lava Bed section, 37 miles south of Calico, for \$1,000. The Luc mine, in West Calico, is turning out ore that runs as high as \$400 to \$800 per tou, Nelswager & Co. having a lease on it for six months, The Sam Houston mine was sold last summer for \$4,000, and after the purchasers had taken out \$15,000 they sold the mine for \$15,000, Mr. Neal is shipping rock to Shermun's mill. eight miles distant, to be worked, that will go as high as \$600. Numbers of others are developing their mines, The King Mining Company have leased their mine to Los Angeles parlies. They have taken out 100 tons of ore, and Nadeau has the contract for hanling it to the Mojnve river, 10 miles distant, to be worked. The Waterman mine has been worked stendily for the past eighteen months, they and night, and is shipping weekly about \$15,000. This mine is located about ten miles from Calico, on the same range, and employs about 40 men. Ten miles below Cuheo is the Sherman mill. It has five stamps and five more are really to be put up. At the Calica railroad station is the Oriental Comjanny's big mill. It will be ready to run in a

#### GROWING LIQUORICE

A syriter in the Evening Post, of this city, in giving an account of Isaac Lou's fruit archard at Florin, Placer county, states that the proprietor red into the experiment of He describes it as follows:

In 1876 he received two small cuttings from Europa, and from this meager beginning be has produced a mark-table article. His brother, Thomas Lem, of San Francisco, who, by the every built and operated the first malthouse on the coast, nt North Beach, Stockton street, in 1854 brought several large mosts of the Florin honorice to the office of the Past, to illustrate what may be accomplished with euro and intelligent industry on this publical with ener and interingent monsely as account. The article was very far superior to the imported liquorree, giving evidence of a generous soil and favorable climato. This year bane Leahus planted 40,000 entrings. The mode of the cultivation is simple. Temp favorable played for from feet apart, and the most cuttings, three or four inches long, are dropped in the trench at intervalof from sex to turelye mehrs, and earthed up. The smaller cuttings, like thin tivigs, grow lest. After phinting, all that is needed is to keep the ground from weeds and loosen it with a cultivator. In three years the roots arealing, and when cleansed and dried are ready for the market. The root is perennial, and several of the specimens exhibited by Thannes Lea, from his brother's furn, were over an inch in diameter.

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#### CITRUS FIGUIT-PRODUCING LANDS,

That lands which grow citrus fruits command a high figure in Southern Collifornia, and are much sought after for the profits that are to be derived from the culture of this class of fruits, the followstracts from the published statement of those who have disited that region during the late citeus show. One of the party who accompanied Mutthew Cook, and visited the fair at National City, San Diego county, the fair at Biooc side in San Bormsrdine vicinity, and nearly all of orehards and vineyards in the two counties maned, as well as those of Los Angeles county, sams up his experience upon the hard values as in the Sacramonto Revord-Union;

"San Diego comes to the front with producing Where irrigation is almost unit of reach, further than what is taken from Mother Karth by windmills, etc., unimproved lands we offered, near the railroad stations, at from \$75 to \$150 per acre; fifteen miles from the radroad, say \$55 dollars per acre. Riverside, San Bernardino county, asks \$200 to \$300 per acre for mumproved lands, with water rights, and for orehards coming into bearing \$1,000 per sero, and in some cast \$2,500 per acre. A trade was made on the 16th instant of theority weres for \$19,000. At Los An geles and vicinity orchard property is bringing very high figures, in fact a boom is raging through out that section. There ean not be may doubts or desials that the appearance of the orelard property in Southern California is beautiful, and the returns from many orchards are large aye, hand-some. For instance, a dealer in Los Angelos, E. Germain, paid for the Wolfskill orchard crop of oranges (28 acres), and packs and hoves them, \$25, 000. And many such trades have been made. Nearly a million of citrus trees will, in addition to those now bearing, send their produce to mur-

ket within the wext two Are calculations based on these sides to be relied upon as future prices. If so, then the produce of Southern Califorms, rated at \$1,000 per nere, warrants the present boom. The query may be made, can any other portion of the State produce such results, and have an equally reliable market for their produce? I think that there can be relied on a fair arket in Sacrameuto, and adjoining counties of Central Unlifornin, for mehand produce. In this cicinity (Sacramento) Bartlett pears produce, in cases, over \$1,000 per acre. In many tuses peaches, apricots, chemies, plums, currants, grapes, etc., pay handsome returns per acre. But which is the moral to be learned? Recerside and vicinity is from front posts, and the people there insist of

prople there insist on keeping free from them, therefore the large returns. At Les Angeles, Mr. Wolfskil, McKinley Brothers, and other, have fought the pests and are receiving high returns. Many of our fruit growers in Central California have succeeded in checking the spread of insect pests in their orchards, and are uniply rewarded for their work. But the outlook at present is 'that only the fittest will sur-

As there are many hundreds of acres of land near Oroville that will produce citrus fruits, with every climatic condition equal to that possessed by Southern California, if even not more hencralde for the production of semi-tropic fruits; while the entire section around us will mature to perfection the most profitable kinds of dicidmons fronts, such as the Bartlett pear, the prime, idum, peach, apri-cit, nectorine, persimmen and fig. and all sovts of berries, there is no good reason why the highjerred "beom" in hands should not reach this vicinity in due time. Land vowners of Butt county, and particularly those of the foot-full vo gion where the red hands approach the addre of valley, and where fruit culture, both of semitropic and decidnous varieties, can be carried on to Perfection, should be guided by the experiences of Southern Californians and thereby attract bithor an immogration that would, by its occu-pancy, some collings the land calues here many full. Groville Mercury.

#### LARGIS HISETS.

The Petaluma Courber suys: We have seen heers raised here, sound and solid, one of which weighed 75 pounds. One gentleman in Vallejo township, who planted on adube land two acres of Mangel Wurtzel heets, gathered 60 tons some weighing as high us 50 pounds, and averaging throughout the crop from 15 to 30 pounds each.

#### DIVIDING LARGE RANCHES.

In speaking of this good work, just begun in Sonoms county, the Potulium Argus remarks

The great curso of Sonome county has been the tendency of our people to hold hand in large tracts The offert has been to keep out population and prevent development, corresponding with the real productive worth of vor soil and climate. Just think of our county that extends coust wise from San Public buy to the Gualula river, a distance of 60 miles, and in its breadth embracing a large number of valleys of unrivaded fertility, and a broad expanse of hills and mountains of proven adaptability for the growth of grapes and an ondloss visitety of orchard fruits, without luiving re course to irrigation, and yet we can only loast a beggarly record of 6,990 registered voters. With a territory greater than some of the New England States can heast, and yet the entire papalation of the county, including towns and country, is not equal to that of many of the least conseque cities of those diminutive States of the Making all due allowance for the age of settlement here, yet it is painfully apparent that in paint of development and population Sommu county is at least two decides bulind what it would have been had the hand here been government title and the Spanish grants this county would have four-fold the population it has tecday. But there is no look for the past, and it is with the future that we have now to deid. There is a glimmer of light ahead, at present. There is an anmistakulde tendency, just now, in the direction of subdivisuou and sale in lots to suit, of Intherto large holdings. Within the just few mouths there has been more sules of land in small lots, to suit, than there has been in years before. The work of subdividing and selling lands in lots of from ten to fifty acres is now

The same of the sa ALL PROPERTY.

STATE LINE

#### A SENSIBLE SUGGESTION

The editor of the Colusa Sun received an orange grawn in the garden of a neighbor recently, which measured cleven inches one way and nearly as much the other, and weighed nine onnees. This lends the journalist to make the following sensible remarks, which will apply to many other localities lesides Pidasa: While we do not recommend people to go into orange vulture largely in this valley, or try to compete in the markets of the country in the lower countries, yet the proof is continually before us that there is no need of importing oranges into Colusa county. In fact we are not justified in importing anything that will grow in any portion of the State. This cold weather has been very hard on young orange tiers, but we have not observed any great damage to the larger ones. On a small scale one can afford to protect the trees for a few winters, just for the jurpose of having mee, fresh oranges of home In our home markets the grower would have the advantages of freight from Los Angeles up here, and boing while all the time twoffer a fresh article. We are much obliged to Mr. Gillispy for the sounde sent us.

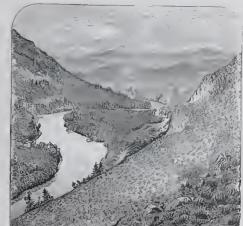
#### REAL ESTATE

The following, from the Real Estate Circular, published by Thomas Magon, of this city, will give

hy as it had been for some two months procious to the 23d alt., had begun to affect real estate cory unfacecealdy. Everybody behaved we were in for one of the very dryest of dry seasons; but the rains at last came in quantity sufficient to save the crops in most of the agricultural districts had begun very generally to hold lack, under the

ome idea of the good offect of the vecent rans The weather, so possistently and continuously

belief that the improvement of the just year



## SCENES IN NORTH-EASTERN CALIFORNIA.

fairly inaugurated in the upper and of the county, , Some of the purchasers are parties who have visited the southern portion of the State in quest ineyard and fruit houl, and they are surprised to be able to get as good a quality of land in this county, and at much lower figures than they could possibly get it does there. It is an incontrocertible fact that there are the usuads upon thousands of acres of land in Sonoma county, of the very hest usuality for vineyards and orchards, that is now being used as cattle ranges and sheep walks Very much of this hard that 850 or 860 per nere would be the antside prices it would commund, in for furning, darry or stock quantities nufficient purposes), would find ready sale at from \$75 to 0 per nere, if offered in lots of from 20 to 40 We are evidently feeling the first groundswell of a real estate boom in this section, and confidently expect to see many of our large vanches sovermily to the inecitable, and be paveeled out at good prices to those in quest of small tracts of hand typon which to establish permonent homes.

#### CLIMATE OF BRASS VALLEY.

The Thirty says that the climate is wild all the year round. It is considered very cold by the climate-parapered population when the thermores tor in winter gets as low as 22 degrees above zero. The temperature rarely goes below that mayk, and indeed, addoning the sollow. In the lattest days in summer, where the mercury rany get into the high nineties, the climate is evigently for the reason that the nights are always east, so that refreshing slvep can be had; sleep that recuperates. Pr the the climate council be excelled anywhere in the would. The odor of the june tree leads the un with healing to weak hings, and the initial purity of the atmosphere is not morred by deloterious exhibitions from ill-desined soils,

in real estate will be checked, and that prices would certainly fall. But the ram has changed all that, and laryers are now in the murket in larger numbers than ever—All basiness properties in any fair locality can be said at once at full prices. There is now, too, we are glad to say, a decidedly unproved domaind for Mission property. cable line an Valenem street will, as we have always thought it would, prove the recreation of prices there. The other Mission roads aimst always through of prices there. The other Mission roads of prices there. The other mission roads the ceither become calde lines, or practically go out of business. With three or four calde lines the Missions bold of life and progress is a sternig and largely unsatisfied denoved for houses and lots westward, at \$5,000 to \$8,000 each. Bayers there can do much better by buying caenut lots and building, than by paying their snoney ant, as some of these are doing, for ald at chemp houses. A new house, built to surt the buyer's own ideas, is worth 20 to 25 per cent, nove proportionately, than an old one, or even whose une not thoroughly loost or finished.

#### BOPS AND HOP PROSPECTS

After careful inquiry we have become fully salis-ed that the increased area devoted to hop culture in this county will exceed 500 acres, which, of course, promises a greatly-increased revenue to enterprising farmers, even though hops should not bring more than 50 cents a pound. The old fields have been worked and pruned, and are already putting forth, widle the new fields are in, and the father of the season fairly begun. Such a demand for hop poles was never known before, and many teams are constantly employed haulting them from the redwoods. A large number of the farmers secured their poles in advance, and they have them already sharpeved, and are now patting them in postition to receive the vives. This provises to be a busy season, and we trust a most profitable one. — Mendocana Desputch.

#### SOUTHERN CALIFORNIA APPLES.

A writer in the Royal Press, of this city, who has visited the citeus fairs recently held at River side and Sun Diego, furnishes that journal with the following:

We have had intinuitious for the last three years that the apple might contend with the comige for m of Southern California smodune. the poss The recent fours at the south lineve brought the apple forward note greater prominence than it has history enjoyed. The presence of many northern apple growers at these faces naturally brought the there upples under test and discussion, and it may frauldy be said that the apples shown were a great surprise to the visitors, who had never been awakened from the old dream that Southern Unlifornia could not grow good apples. These visitors while examining the fruit grown on the National Banch and that shown at Riverside from San Bernardine county trees acknowledge that the southern specimens suspassed mything they themselves grew, in their quality of keeping firm, crops and purey to this late day. Les Angeles county has had an apple record for some time, though purhaps it has not been so generally known as it should be. And apples, too, are about as prantable is erop as can be grown, even in the region famous for semi-tropical fruits. It is true, how-ever, that all varieties do not give satisfaction, nor is it likely all locations are suited for apples; but there is data enough available for selecting the right varieties and right location if the intending apple grower will cisit the country of the bearing chards in the different countries we have named.

A tellute to the calle of the San Dago apple has come from the East in the shape of a letter dated February 20th, from K. H. Calkins, a wellknown horticulturist of Burlington, lowa, to F. A. Kindail, of National City. We make the fol-

lowing extracts

A wish now, particularly, to speak of the beautiful Wine and White Winter Pear main applies you sent us, and of their excellent qualtty, more especially the Wine Sign I think I never saw their equal for beauty and large size last once, which was some exhibition of specimens from Ken Their superior 1 lacce never seen, and I I have attended a number of notable exhibitions that were national in charac-The fact that Califor vin, at its extreme south ern limit, can exhibit northem carreties of fruit of sin h excellent quality and so writer, and no this respect just to blush the last preserved specimens of northern growth, was a wonder to all beholderenad of itself a narvel. Accorde of days

since, the last Wine Sap I brought divided with my better half, after it had set in our living room five weeks, and had become consideraldy wilted, and was pronounced by both of us to be excellent, and in better condition than any ru our vellar which had repencel in the northern dimets. Such a quality of apples would been found a market in this apple consitry has fall at ident four dellars per bierel, and would now be engerly taken at fice dollar-

#### TIMBER LANDS.

The timber lands of Northern California are now attracting great attention, and one of our exchanges has published about 300 applications to purchase. The timber lands of Shasia county, of which there are immense quantities, are also being looked up by capitalisis and settlers and there will soon be a Two companies, for thom. large capital, already have agents busy examining our timber resources, and applications for amounts of land will no doubt follow, lands, especially those near the line of the railroad and on large streams leading to or near the road, will be very valuable in the near future, and those who can new secure a purtion of them will find it to their flusheral advantage to do so. There are thousands of acres of the tuber on the North Fark of Cottonwand, Clear creek, along the Sacrariver and numerous mento sul Iributaries, Pitbranches, that afterd splonded charges for those desiring to locate them. The Government price for trader lands is the same as for unneral, \$2.50 per sere, and can be invehased in 160 acre lots by single purchase, or in that proportion by associations of Dersons. -Starsta Cour

#### CALIFORNIA AND FRANCE.

The vinexard area of California is much greater

#### THE SANTA ANA VALUEY.

Within the limits of this valley the orange, the lemon and the lime grow side by side with the apple, peach and pear-whith the delicious aprient of A in flourishes and matures to perfection with the fig of Turkey and Sugrua, the almoud of Italy and the English walnut. The vineyards of Sania Ana rival those of France or Hungary, both for variety and excellence, while the production is four to one. It would stugger the most fertile imngination in altempt a computation of the passi-bilities of this vally. The variety and productive-ness of its roll offers a field for every planse of ness of its foil inners a nil for ext, limited agriculture and horrienthire. From 80 to 100 bushels of corn are raised to the acre and, at the same time, between the rows of corn are raised large yields of out-ins, potatoes and numpkins. Scores of farmers, after inevesting a crop of harley, realizing from 60 to 100 bushels to the acre, plow the land up and plant to corn or potuloes, thus securing two crops a year. The most granifying re-sults have followed almost every intelligent effort put forth in agriculture and borticulture during the past five years, and very handsome profits, vary ing from \$50 to \$500 an aero, have rewarded the enorgetic and enterprising tiller of the soil.

The geographical position of the valley is most fortunate indeed. No intervening mountains arise between it and the mast, and thus for the greater part of the year its inhabitants are fanned by the gentle sea brevze, making the days more pleasant and the mights simply d-lightful. The average temperature for the past seven years is 65 dwgrees, the highest average in any month being 75½ degrees in August and the lowest, 56 degrees in De-

The shipments from Smilii Ans, alone by rail and steamer, for the year 1882, aggregate the enormous amount of 32,000,000 minude, some of the principal to me being 6,207,000 pounds of corn, 800,000 pounds of barley, 1,000,000 pounds of wool, 3,207-, 370 pounds of cost, 200,000 pounds of printies, 93, 240 pounds of eggs, 80,000 pounds of besus, 40,204 pounds of eggs, 50,000 pointds of besin, 40,204 pounds of hops, 150,000 pointds of hiney, 185,860 pointds of wine, and 27,780 pointds of dried trint. The shipments also embracid 331 car loads of lings 57 csr toads of sheep, 64 car loads of green fruit, 21,212 boxes of raisins, 18,607 boxes oranges, 12,-780 boxes lemons and 560 boxes limes.

With this showing from a valley scarcely ten years settled, who can estimate the products and income arising therefrom within the next two years? Let it be harne in mind, also, that not more than one-third of this valley is under cultiva-

The principal town in the valley, and the second largest in the county, is Santa Ans, about 32 miles southeast from Los Angeles. It is the terminus of the Santa Ans soil Los Angeles division of the Southern Pacific Railmad. Its location and surroundings are in the highest degree pictoresque. It on a slight emmence, while on every side stretches away the tertile valley—ou the east to the Santa Ana mountains, on the north to the orchards and vineyards of Anaheim, and on the south and west to the Pacific Ocean. Its orange groves and hundsome villes-its orchards and vineyards lend an additional and attractive charm to its beautiful and attractive surroundings, while its growing importance as the center of one of the larg at and most marvetonally productive regions on the coast, renders it indeed one of the most destrable locations to those sceking homes. Santa Ana ties a population of about 2,500, and is steadtly mereasing. With such magnificent and important tribulary sections as it pussesses, with its spieudid harbor at Newport, only eight miles distant, with its railroad connections, and its mild and healthful climste, Santa Ana will surely become city of considerable wealth and ruportance. - Santa

#### BONANZA FLOOD'S RANCH.

A Sun Diego correspondent of the St. Louis Regulation on thus describes one of the most notable ranches in California, belonging to Junios Flood, one of San Francisco most wealthy citizens

Going from Sun Bernardino by stage towards the sea, where about fifteen miles from San Diego we dashed out of the garge and a gargeons view of the occur burst upon our sight. The sun was suking into its watery hed and the ocean shone resplendent with crimson and gold. Turning to The other side we saw the moon, puls and ghastly, rising over the mountain neaks. Such seems as those greet the delighted gaze of the fraviler so often that it seems one might become accustomed to such heartnes, but I find it always new and wonderful. We find passed, during the afternoon very large and noted ranch, comprising to thousands of acres of hind, and covered for miles with cuttle. Our read run directly through it The houses were combertable booking and large ruiterf relabe, phytored or the curtade, and white (with green shutters) was the providing enter, one story high. This much is called the "Santa Marguerita ranch," and has just been sold to Bonnuza Fluid of San Francisco for \$150,000,

CALIFORNIA AS

Toe following is taken from the agricultural de-

partment of the Record Union. This promises to be a good season to plant curn and raise a summer crop on lauds intended for wheat in the fall. The ground all over the State has been thoroughly saturated with water, and the nas neen thoroughly saturated with water, and the nir will remain comparatively maist during the en-tine summer season, and gonsequently we may look for comparatively warm growing nights and a von-dition of climate generally (avorable to the growth nt corn. While we would urge upon grain farmers the Importance of summer fallowing their lands for the sowing of wheat in the fall, and of early sowing, we would also recommend the more general culti-vation of corn, as an atternate crop with wheat. Let a portion of the land which is to be put down in wheat this full be plowed now, and well drugged down, putverizing this surface thereupily, so as to retain the moisture now in the soil, and to attract warmth from the rays of the sun mutil time for planting corn-say about a month hence; then furrow the ground both ways, letting the plow go the depth at which it is desired to place the seed below the surface. This will vary with the soil, but in this Stale corn should be generally planted deep -say from four to six melies. The covering at planing may not be thus deep, but the grain should be placed at least thus depth below the surface, as the lower root will then be deeper and more likely always to find plenty of moisture. lands or wheat lands of this State, beeing of coru may be generally dispensed with, as weeds will not generally grow much after the planting time, but thorough and frequent cultivation with the cultivator or horse hoe should be resorted to both as a means of introducing moisture and ferlilizers from air, and thus stimulate the growth of the corn and propare the soil for the ensuing crop of wheat We know that wheat farmers are generally averse to being trombled with summer crops, and have very generally pretty strongly settled opinions that they will not pay. But we can very well remember the day when they thought summer-fullowing was unnecessary-in fact work thrown away-that the true way to make wheat-growing pay was to get the sted in with the least labor possible, and the nearer the labor of seeding and harvesting could be brought together, the more clear money would re-Necessity has pretty fully exploded these ideas of wheat growing, and it is now generally conceded that the greater the amount of cultivation the sull indergoes, the more to the acre and the more profit to the owner. Now, our suggestion to raise corp on wheat land is in the interest of more thorough cultivation and double pay for such cultivation. It hoke to two crops instead of one from the same land, with less exhaustion of fertility than results from a single crop produced by poor culti-vation. We are satisfied that if grain farmers would lry the experiment they would meet with salisfactory results.

# FALSE IMPRESSIONS REGARDING CAL-

California 18 so far removed from the center of population and government of this country, and has been so recently known only as a cruile mining community, where the daring and conrageous elements only came, that many false impressions have fastened themselves upon a large majority of those who have never visited the Coast, It is always a matter of surprise to an Eastern person coming to the coust for the first time, to find that the carly and hardy endurance of the ploneer has begot and and mardy engineace in the protect has begot and that nowhere in the entire land are the arts and sciences so universally acquainted with. The false impressions that many Eastern people tave are foreibly outlined as follows in the Commercial Herabit.

The commercial, financial, social, and hygiene conditions of this bless, and weight of Park Personnium of this literature and weight of Park Personnium of this literature and weight of Park Personnium of this literature and weight of Park Personnium of the Parks and weight of Parks Personnium of Parks Personnium

condition of this State, and especially of San Francisco, is little known to reverage Americans on the other side of the monitains. The great newspapers news associations publish little cor California, excepting when there is a chineo of saying something bad about it. A unirder, a defal-cation, or a railroad accident, a footish speech by a worth'ess communist, or anything that reflects dis grace on us, or would lend to make predent people avoid California as they would a moral hell, and San Francisco as his hottest depths, is published far and wide, with grossly exaggerated and sensational headlines. Our merchants are popularly supposed to be merc serfs of the railroad, bound to do their sellish bidding, and hand over, from time to time, the larger share of their profits. Our farmers are supposed to be even worse off. Every growl, metacally emphatic, our people make for the parposo of rehirming sinne supposed show, is avecabled abroad as a mild and cautions statement of feet, Strangers to California partners as two large classes—one of stringgling victims of manapoly, and the other of crimburls and communists. If a ratiroad medient occurs, they larget the worse and more frequent disasters which neour in their own States, and conclude that it would be wanton reck-lessness of life to travel on a California road. If a Subscribe for The Rysources of California.

Subscribe for The Rysources of California.

Subscribe for The Rysources of California.

S A CORN - GROWING VARIED RESOURCES OF CALIFORNIA STATE. A writer in a reconsisons of the Wandle Observable A writer in a recont issue of the Weekly Chronivle of this city, in the course of a valuable and graphic description of the resources of our State, says;

No part of the wurld of the same area can show such a list of native products, or such pussibilities of production and development. Were all the rest of the world, by some condition of nature, suddenly rendered approductive, or otherwise placed beyond our reach, this State could supply overything nverseary for anheistence, for use, or for ornament nverseary in annessence, for the, or in original to which civilization is now arenstomed. In region, therefore, can be made so independent or so self-supporting as California. We ruiso everything of which valuable, to tribe fabrics are madecotton, wool, dax, jute, hemp, and silk. We have already appared, appears in the control of the already several woolen mills, and a mill for the making of the coarser colton chiths is about to be established. Our iron names will soon farmish material for all kinds of hardware which we care to manufacture on this coast. Nail works have already been calablished in Oakhaul, and works for manufacture of steel will be creeted in the the spring. Such partion of our gold and silver as not minted ar exported in the larm of hulhon, is made nito tasteful urnamenta in our unu workshops. Our minor minetals are either unlized in our infinifications, or exported, religious to the State in other forms of wealth. No State can carry on manufactures more cliesply when the relations of capital and luhor are more carefully adjusted Our streams in the Const Range and the Sierra furnish abundant power, and are not, as in the East, Iruzen for half the year. Our climate stimulates physical exertion, and makes labor comfortable and easy. All the wants of the laborer can be easily supplied. Food is abundant, cheap, and wholesome, and living inexpensive, on account of the mildness of the climato.

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This Magnificent Esfate is located in what must be the very center of the elly in time to come, at the present terminus of the Mission street car line, and within two blocks of the Valenta-street carbine, and within two blocks of the Valenta-street carbine, less a gentle shope to the east; a fine snow exposing and dratings profect. The Spring Valby Water Company have in received on adjusting property, issuing an infiliated supply of usite. The huiding site, rountainfing view and surrounded with schools and burn has, only 30 induces from Kearny street, and screenible by City Bailroad or Valenta street rable and for twe central fare from the ferries of any part of the city. No grading to be done and ready for immediate in-provenients.

No grading to be doin and ready by thinsmass. Hitly Park of four acres (mure or less) on his brid has been dedicated and deeded to the city for the special intrinso of a public park forever, and greatly adds to the value of this property, making it a most attract spot for private residences. There exist he no quastion as no the value of this elegant estate. The growth of the city be south and well, and the only omiter is directly past this property was is the time to secure a large bluck of fand, in the direct lime of tarprovement, at low prives, and we considerally towice the at culton of all buyers in this altraction of finds.

offering Boxes at bottom of an oxycles in oxycles of offering Boxes all staked and streets marked. Don't fail to see this properly before the day of sails, and mark of your Catatogue lots you may desire to purchase. The affairs of the Bank of San Francisco, in liquidation, sule will entitle of the fail of the fail of the Bank of San Francisco, in liquidation, sule will continue until the rather Catalogue is deposed of.

# TITLE ABSOLUTELY PERFECT!

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#### SAN JOSE

The Meccury has the following concerning the outlook of the Gardon City of the Pacific Coast:

Never in the limtery of San Jose has the outlook for the fitture been as promising as at the present

And really but few cities in the United States. we doubt if there are any -can make a better show. ing, all things coundered; or offer better inducements to seekers after heafth, happiness and desirable homes, than San Jose

Suppose we take a brief inventory of our assets not for our San Jose renders, for they are all familing with the matter; but for the information of many strangers visiting our shares, irho are enjoytheir escape from the rigors of an Eastern winter, and are looking, perbaps, for some barbor of refuge in which to anchor their barques, and make their future homes. And also us a sort beacon light to the thousands who have never yel tasted the delights of this gloriona country and olimate.

In the first place we will commerate our principal public improvements belonging exclusively to the

Five public school buildings valued with their lots at not less than \$125,000, and employing 45

Forty miles of graded streets, exclusive of the arren mile arcane, constructed at a cost of \$40,000 and leading to the City Reservation, of 400 acres, in the fulls.

Three public parks-one, the Reservation mennoned above, embracing some of the mildest and most charming natural scenery in the State, and a farorito place of resort. Another, Washington square, of 30 acres, in the center of which is located the State Normal School building, costing \$150,000. And the other, St. James, a little gem of a park, of about eight acres, located near the center of the city.

A paid fire department, nith two fine fire steamers, hook and ladder truck, bose cart, and all the necessary appliances for extinguishing ares; together with engine-houses for the proper storage or the same

A main searer of brick, fert in diameter, and 6.061% feet in length; a brick sewer four and one. balf by three fort in size, 6,525 feet in length; 1,502 lineal feet of redwood sewer. and 26,588 lineal feet of open sewer ditch, or 40,685 % feet in all, and costing \$92,-

A city hall, (nothing to brag of), with city prison in the rear; the former con-Treasurer's office. taining office city clerk, common conneil room, city justice's court room, office of cluef of pulice, room for nue fire steamer, etc.

River [mprovement valued at some \$40,000; a

set down as the principal items of city property. which are all paid for, and the city has no indeblness of any kind.

Now as to our assets in private property of a public character: We have a Court House and jail, the finest in the State, costing \$300,000; city water-works costing about \$600,000; a double system of city gas works costing not less than half a million; telegraph lines outreaching to all parts of the world; a telephone system connected with Sunta Clara, Saratoga, Los Gatos, and the Lick Observa-tory on Mount Hamilton; electric light fronks, with the streets partly lighted by electricity from one of the finest electric light towers in the world; a dozen or more charches of various denominations; several one private schools; one, the college of Dame, with buildings and grounds costing about balf a million dollars; five lines of hurse-railroad all wells quipped; connection with San Francisco by three lines of railroad, and three daily papers of We might ext nd this list; but this is sufficient,

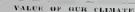
complet with the fact of our "glorious rhitonio," aloresand, to emphasize the oft-repented assertion. that San Jose stands nurrealled among the cities of the Pacific Coast in point of nitraction for strangers from ather lands, or from other portions of our own country seeking a place of abode.

#### A FINE HARN.

The Britte county Record remarks that a rauch of any kind in Botte county hos big barns, and in many instances they me huilt much better their the farmer's own house. The largest harrein that a muty will hold 500 torse of frey, and 280 house can be eating it the same time; or it will hold \$,000 bins of hav, and \$,400 sheep can be feeding at the same time. An eight loose team con turn around much of it.

#### THE WINE INDUSTRY.

The Surveyor-General's report for 1881-2 shows the aeresge in vines on June 30, 1882, to be 101,031 neres. The same source gives the acreage on June 30, 1831, to be 75,141 acres. This is an increase of more than 34 per cent for one year, and it suggests the question, "Will the acreage planted to viues se as last in the luture, and if so, what effect will this increase large on the price of grapes?" There are hundreds of thinusanils of acres of land in this State that would grow good grapes, and it siems to us that as long is grape grouing is as profitable as it now is, just see long will new vineyards be planted. The demand for grapes and True is increasing, but at the present rate of in crease in the number of vines planted, it is evident that the demand for grapes must be satisfied in the near future. That is, the demand for grapes at present prices. But whether Cultfornia can more than supply the demand for grapes in the future, it is hard to say. Whent has long been raised in this State, at a profit not to exceed ton dullars per acre The profit on an acre of vines at present prices. atter the seventh year, at low figures, is \$75 per acre. The profits of an acre al wheat for ten years 18, eav \$100. The profit of an acre of vines for ton years to \$750, counting grapes at \$25 per ton. If wheat pays at ten dollars profit per arerage of ten years, is there not a wale margin for the price of grapes to drop in? During the past choice table grapes were worth \$50 per to ship East, and it is said by those who know, that our fruit trade with the East is only in its infancy. These would then appear to be the outlets tor our grape yield: The shortage in the European markets, caused by the death of the French and German ri cyards; the Eastern demand for table grapes, which is almost unlimited; and the possibility that when wine becomes cheaper, it will take the place as a drink that beer now holds. Wine musi grow



It has become the fushion with certains newspapers in the northern part of the State and of Eastern correspondents to snear at this Southern California because they put so high an estimate on the value of their unapproachable cli-We read frequently that people in larying mate. We read frequently that people in the sud and land here for \$100 an acre, pay \$25 for the sud and \$75 for the climate. Well there is, perhaps, a great deal of truth in that declaration. Let us put it in this way; What would the land in this admirable region be worth without the chinate? It is the climate that enable as to grow leveriantly all the semi-tropical productions and many of the trappeal, It is the climite that makes the herries of our richer than those produced in more rigorous temperatures, and gives them qualities which contri bate to impart to our wines that delicious bonquet which elimracterizes the vintage of the south of France. It is the climate that makes our section a sanitarium for constitutions broken down in the less favored parts of the Uniou, and which gives an increased lense of life to all who temperately enjoy Indeed, to sum the whole matter up, it our mate was left out as a factor in the resources of Southern California, there would be no more attrac tion here for the rich or poor man, for the invalidwho longs to get rid of his malmilies or the heafthy man who wishes to prolong his years, or for those people who are possessed of wealth and desire to eujoy the richest gifts of nature, rendered richer and more enjoyable by the hand of art than Washington Territory or Oregon offers. Chinate, therefore, is the very basis of our prosperity. It is that which makes those who have lived here never wish to live elsewhere, and which is bringing to us the choicest citizens of the rest of the Union and of We may well be proud of our climate. Without it we would be nothing with it we can be everything. It is the Ponce de-Leon

#### MITUNEAUN ROTHES

The repeated productions at the Independent that an era of pruspirity would undoubtedly flawn upon the mining countries east of the San Junjum valley are beginning to be verified. A few years ugo farming and trust cuffure in the mountain countries was at a discount, and the owners of little rangles could burilly trave sold their claims at any pirce; but now there is altogether a different condition of things, Since settlers have obtained Government titles to their little farms, few, if any, are for sale, and all are held at high values. In former years, before even Innited experiments in farming were attempted, much of the light and shilling soil in and was generally regarded as utterly value. less Integricultural purposes. Subsequent results, however, proved that these hashly intertuned carly nowever, proved that these trissings from that thir corps at wheat and barley can be obtained from almost every littled; while much of the land in the little vallers is well adapted to fruit culture. In conversation yesterday, a gentleman from San Ambrens stated or this city that the tarming prospect more is more encouraging than in any time for tising years past. Instead of the people mainfesting descontentment and a destre to seek homes chowle resome who left the mountain sections years ago are returning to take up their permanent abudes, Hereinfore much of the pasture in the monutains been appropriated by the owners at thicks of sheep and herds of cattle in the valleys, but all that will now be clanged, and the profits derived from that source reaped in the future by the farmers and stock raisers in the mining countries themselves. While there are immense areas of Isial in Amsdur, Culaveras, Alpino, Tuoluame, and Mari posa counties so abruptly mountainens as to be inaccessible to the plow, yet ther are of great value as stock ranges, and will undoubtedly be more rud more utilized as such year after year by the propin

> thus barring out predatury hordes of maranders and annually adding to the rercomes of the respective ant source of wealth within their own limits. Instead bring ultimately peopled by Chinese and Digger In-diane, as many false prophets have predicted they would be, ive may expect to witness, in a years at furthest, a spectacle of busy life in mountain countres, far transcending the most am mated period of placer mining. Thriving villages where the sound of the pick-IRC. axe has not been beard. quarter of a century, thous-amis of flourishing orchands, vineyands far exceeding in extent and value the beat in France, and a large

residing in adjacent scennis

and happy white popula-tion rujuying the realth ne-cumulated by their own persevering industry and fragal management, will That a new industrial era in the mountain countres has already been inaugurated, is strikingly mantfrated by numerous evidences of fresh tifemed renewed vigor in the various channels of business and productive pursuits. We think it may be regarded as a reasonable and safe conclusion that that at no remote day, the countries above named, more particularly Calaveras and Tholumne, will in general prosperity, any other sections of the State. Their femt-producing capabifities afone are almost beyond computation -Stockton



GIANT'S GAP, American River



AMERICAN RIVER.

#### SCENES IN NORTH-EASTERN CALIFORNIA.

well appointed city cemelery, etc. These may be | cheap in the near future. The bulk of vines planted is of the wine-producing rarieties. Then the wine demand will be the first to be satisfied. When this spices, the boavy buyers of wines will select only the best qualities, leaving a large bulk of inferfor be disposed of, which can be done a fall in their price only. When wine is sold for afteen ceuts per gallon it will be cheaper than beer, and must eventually take its place, and it seems that the demand for cheap wine will then be unlim-That it will pay to raise grapes when wine sells tur but fiftren cents per galfon, can be proved to anyone, we think. But vineyards must be cultivated in better style than they are now to make vine-growing profitable when wine is worth but So long as the profit üfteen cents per gallon. in wine growing is so great as it now is, we can exprot no great improvement in the culture of the vine: for now anything that looks like grapes will sell, and anything that laoks like wine will market, without regard to their quality. But the vine will pay, and that time will be when demand for name is satisfied. Then he that the demand tor raises the finest fruit and makes the best strots the one that will sell his produce for the most profil.
We have no great tear of the grape industry being overdone, but we do fear that many it one that now sees a fortune in the business, will be sailly disappointed before he gathers to that fortune. It takes mere skill and intelligence to produce good wine than to produce any other luxury or mecessely that man uses. Some localities will never yield wine, but may produce good raisons or tichle grapes, Each lucality must be studied as to its fitness certain varieties of grapes, and each variety of grapes must be studied as to its fitness for certain healities. There will be failures in the vineyard besides, fact as there are in dairying, shicker-raising and trait growing. But the intelligent and careful man can expect as breon a profit from grape growing as from any other product at the soil, and can expect it to contact the soil, and can expect it to contact facts.

elixir for the aged and infirm, and the exhibitarating in vigoration of the young and the healthful. We can therefore afford to let those cynics, who sneer at us because we place a high estimate upon our ctimate, continuo to crack thoir silly jokes at us-While they are doing this they themselves can not help to stulttfy their own words. They admit that our region is a paradise of rich and heautiful growths—that the most delightful grounds, the most beautiful orebards and magnificent vineyards in the world are here-the result of only a few year's fabor-and yet they refuse to see that without our superlative climate such pictures as they draw of our luxuriant growths would be impossible. Let the shallow wits rail on. Wo who have passed the best of our lives here know that the shinate is our most valuable factor, and is the one which is destined to make Los Angeles a greaterty and Southern California the home of a donse and flourishing people, -Los Angeles Express

#### SUTTINES FORT.

old adobe hindding on Twenty-eighth and K street, which is all that is left of Sutter's fort, and the ordy Secremento relic of they previous to the gold discorory, is fast falling to pieces. It will be but a comparatively short time until it will be a thing of the past, and all that will commin wift be some of the adula bank deposited in cubinets. The wills are convict, and general dissolution portrades the outro building. The windows, doors, and the entire building. The windows, dows, and stars are all gone. Of late the lower portion has hoon used to shelter some young stock from the inelement wenther. There was some talk a few yours ago of the Pinner's preserving the place, but it is now too for gone. The pretty green knoll on which it stunds is more the property of a resi-dent of Chicago. The currents and relic-hunters have begun to every away pieces of the whole, the mbble parties of the ralls being all that remains of the original building creeted by General Sutter.

—Record Union.

#### A PAVORED CHUNTY.

Telamor county has a deserted reputation for being a safe county for farmers. The Semi-Weedely Pacsin says

Crups rarely tail, and in the morst pours have not experienced a total finhire county is blessed with varied productive interests, and in the worst years it is a good prinfacer of some of the neressities of life. Sheep by the unit hon range upon its thousand hills; eatth, shock and fat, hore and a fattening harbor; the majestic pune, with its bufomnic redolence, towersenpon our moontum soles, ready for the growlings's axe to convert it into beautiful homes. Gram springs like magic from raffer and plann, from bottom handmad hillsade; the frant of this thornal belt is Inscious, rich, and bountiful in yield, and in the hand, bordoring one pure, erastal streams, bountful exates, tropical fints, and succellent regotables there and are profite. Teleman is indeed a county factors by nature, and man both done much to profit by the bounty of the giver of good gifts. The county has been settled by a pro-gressive and energetic people—a people competent to reap the barrest of autore, and at the sums time to the fore in human cuterprise.

Bubscribe for the RESOURCES OF CALIFORNIA.

JOHN P. H. WENTWORTH,

EDITOR AND PROPRIETOR.

#### PUBLICATION OFFICE:

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ISSUED MONTHLY

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SAN FRANCISCO......MAY, 1883

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When you have read libs maper preserve it and lead it to your neighbors, or send it to some friend in the fusiera, Westernor Southern States. Canada. England and Confinental Europe, who will virtue the information it countains, and might be likely focusion sent intelligent, ladastilons farmers to seitle to Cattfornia.

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# ONE OF THE WAYS TO GET A START IN CALIFORNIA.

The business of wood-chopping and lambering is carried on very extensively in portions of this State. We frequently see notices, in the newspapers published in the mountain sections. particularly along the line of the Central Pacific Railroad, in which contractors ask for wood-choppers. Now, inasmuch as quite a large percentage of the immigrants arriving here had from the Eastern States. (a country where nearly every youth, living on a farm, is early trained in baudling the axe), and are looking for work, they would do well to make inquiries concerning the chances of engaging in the husiness of wood-ebopping. Euormous quantities of wood are cut. ally, between Repo. in the State of Nevada. and Auburn, California, for the railroad. Good choppers are in constant demand in this and other wood and lumbering sections of California.

The town of Truckee, containing a population of something over 2,500, is located in the heart of a timber belt, whose virgin forests extend in every direction. Its saw-mills manufactured the lamber of which the snow-sheds of the Sierra Nevada mountains, and the ties and bridge timbers of the Central Pacific were made. The Truckee wood husiness is of enormous capacity. One firm, alone, has contracts to furnish 10,000 cords of wood annually during the next ten years. Immense quantities are also cousnined in this district in making charcoal Since the completion of the Southern Pacific Railroad, Truckee's lumber interest bas received a new impetus. Its annual trade with Arizoua, New Mexico and adjoining acc tions of country, is becoming enormous. The miners, railroads and the rapidly-growing towns require millions of feet of humber yearly. All the lumber which is used in that region of country penetrated and opened up ty. It is claimed that this section for by the Southern Pacific Railroad is supplied und vines is not excelled in all California.

THE RESOURCES OF CALIFORNIA, by California forests. There are other localities, on or near the summit of the Sierra Nevula mountains, where wood-chopping and handering are carried on to a large extent. Immense quantities of wood and timber are heing constantly shipped to this city, from the Russian river country, by the North Pacific Coast Railroad. We might name Tehama, Shusta, Butte, Humboldt, Lassen and other northern counties where wood-chopping and lumbering are largely pursued. This business is greatly on the increase in nearly every timher section of the Pacific Coast. There are immense forest belts yet untouched on account of a lack of railroad facilities for transportation, but this will soon be remedied, as we observe, from our exchanges, that narrow-gauge roads are being constructed, in several places, for the purpose of connecting with the mais trank lines. The demand for California lumher from South America, Australia and China has increased, wonderfully, within a brief period. In a few years the lumber and wood business of this State and coast will require thousands of men, where only hundreds are now wanted.

It will be recollected that the first purchase of redwood timber lands, for Eastern account, hy a Buffalo syndicate, took place last summer. That event has since created quite a demand among some of our city capitalists. It is stated that, very recently, Messrs. Paxton & Burtis, bankers of Nevada, in co-junction with ex-Governor Low, Manager of the Anglo Californian Bank, in this city, purchased about 7,000 acres on Eel river, Humboldt county, known as The price paid is reported the Ralston tract. at \$100,000. This syndicate proposes to build a railway from their tract to tide-water at Humboldt Bay, a distance of some twenty miles. Promincut lumbermen of Chicago and Detroit have had representatives here at varions times during the past year, with a view to ultimately using redwood for finishing work in place of white pine. Ex-President Fillmore's son is one of the Buffalo syndicate, which is said to have made one of the most valuable selections in the State.

In this connection, we will add, that in close proximity to the timber regions of our State there are mining districts where large quantities of silver and gold are taken out of the earth annually. There are, also, many small valleys in the mountain regions which are adapted to farming purposes on a small scale. We mention these facts for the benefit of those who may be haloucing in their minds as to whether, if they should go into the timber sections, they could get constant employment. In the event of work becoming shick in the bush, we believe they could easily find employment in the mines, or on ranches near at hand, until work revived in the tumber sections. what would be still better, they could, with the money they could save, purchase or take up a few acres of foot-hill or mountain valley land, and commence farming for themselves. are innumerable justances on record of men hecommo independent in a few years' time, who commenced in the way we have described. There are thousands now working in this way, in the hope of having, some day, homes of their own

We think we have succeeded in pointing out one of the ways, at least, by which men of pluck and perseverance can get a start in Culitornia.

#### THE CHIP OUTLOOK.

We learn, from reliable sources, that the acreage of cereals this year is much greater in hearly every grain-growing district of the State than ever before, and the distribution of moisture has, on the whole, been remarkably even for California. There are always spots where the minfull is light, but these meas are comparatively sumli this year. A cureful study of all the information before us, touching the condition and prospects of crops, warrants the conclusion that we shall have a good harvest of the cereals for 1883, and a year of prosperity in every department of agriculture in the State Every branch of lusinoss must necessarily prosper, and all classes, from the millionaire to the inhorer, will reap great benefits

#### THE PACIFIC COAST LAND HUREAU.

We understand that the management of this Bureau are about to take charge of the Fresuo irrigated hands of this justly colebrated local-It is claimed that this section for fruit

#### PLENTY OF GOVERNMENT LAND.

There is no abundance of Government land still open in California to pre-emption and bomestead purposes. Fringing the Sierra Nevada monutains, for several hundred unles, there stretches a broad belt of hills upon which cun be grown all the grain, truit, and vegetables that our lower valleys can produce. And it is a safe calculation to make, that fully three-fifths of this territory is Government land. In Kern county, it is stated that there are over 300,000 ncres of unsurveyed had that is subject to entry. Much at it is as time had as ever the sun shone on. And yet it is doubtful if there are more than a few persons in the whole county aware of the fact. On this very theme the Kern county Callifornian said, not long ngo, that a very erroneous and unfamaled statement had been circulated about, to the effect that all the hand which is good for mything had been taken up by a few large hand-holders. This being the condition of uffairs in Korn county, concerning the available hands, it is quite as likely to be the same in other counties

Some time ugo the Salinus Index stated that there were still thousands of neres of productive land in Montercy county still belonging to the Government. The chunts in the section where these lambs are situated is very mild. Timber for ordinary purposes is plentiful. Those in search of homes will find chances to purchase land in many other countries which possess advantages equally as good as those we have named.

There are innumerable places, even in the mountains, at an altitude of 4,000 feet, where vineyards flourish. If we could only interest the right class of people, there are homes for them all. It might be necessary, of course, to expend a little time and patience in searching for them, but, when tound, they would prove to be much better bomes than the hill and mountain lands of half of the civilized world have farmshed.

There is no fact to which California needs to be more thoroughly awakened than that she should begin to look after her immigration. Our neighboring State, Oregon and others more remote-have set us examples which we should not be slow to mutate. And they are daily reaping the henefits of their intelligent efforts by attracting a large and valuable immigration. Many good people give our State the go-by, simply breause we make no enrnest effort to bring them here. We bave done, and are still doing, all in our power, by the publication of this journal, to make known the fact that all California needs, in order to become a prosperous State, is a large influx of intelligent and industrious immigrants,

#### PROFITS DF MINING.

It is stated that no industry in the United States can show, in the same period of time, a corresponding increase on the capital invested, as that of mining. From the most reliable statistics, the Mining World, published in New York City, learns that, ilnring the 30 years previous to 1880, there was expended, in the purchase of mines and all expenses arising from the development of them, \$700,000,000 cash returns from this expenditure for the same time nets \$2,200,000,000, thus giving an actual profit of nearly 300 per cent, or the investment mudo

The journal from which we have gathered these facts, closes its inticle by asking this question: Who, looking candidly in the face of such facts, can assert that legitmente mining is not profitable?

#### A SEASON OF PROSPECTEY.

It is estimated that there has been sown, at least, one-fourth more notes of grain this senson than last year. And unless all of mature's signs fail, we one look forward to a prolonged season of prosperity. California posses area of territory that others sustenance, homes and a prosperous future to several million of people. The State has about 100,500,000 meres ot laml, and a population of a unilion. Even at the present slow rate of mereuse, in a few years, we shall witness a degree of prosperity ulmost nuknown in any other community.

#### OUII RESDURCES.

The resources of our State are still largely in the rough and nudeveloped. In comparison with other countries, her population is very small. Therefore it will be seen that the great need of California is an inoreased population.

#### GROWING SWEET CORN.

The Grass Valley Tidings, recently, had an article in which it was stated that it has been demonstrated, by many tarmers in its vicinity, that sweet corn is a profitable crop in Nevalla county. There are many other sections in the State where it is ruised in abundance. Now, as large quantities of this article at cannal goods are being constantly imported to this State from the East, the question is often nsked why we do not provide the necessary facilities for canning, at least, enough for home consumption. It certainly becomes a very important inquiry, when we take into consideration the fact that thousands of acres are already devoted to this kind of farming, and that a large portion of the area of the coltivated lands of the entire State is especially minpted to the growth of the sngur corn. This State imports a large percentage of the cannel corn used here from other side of the Rocky Monutains, while labould no longer by The little State of Maine has 61 corn establishments, with an annual production of about 11,350,000 cnns, while but very little attention is paul to this branch of lust ness here. This industry gives employment to nearly 10,000 persons in that State. Here then is no example worthy of our encolation. If the Old Pine Tree State can make such a showing, we think that, with all the superior advantages of climate and soil our State possesses, it could raise all the corn needed for home consumption and, in addition, do a large exporting business. There are many places in the corn-producing districts where this industry would prove highly profitable. Corn-canning factories in these places would not only afford a home market for a large portion of the corn crop, almost at the very doors of the farmers. but they would also afford a field for remaner ntive labor to a large number of persons, and, in addition, prove an entering wedge for the establishment of other inclustries that would cause those districts to advance rapidly in wenlth and importance. The work connected with the canning of these goods is not of m Inhorious kind. It is one of those occupations in which women and boys can be employed.

It should be the endeavor of our turmers to furnish everything in the eating line that can be grown or farnished. The nearer they come to this, the better and more prosperous will the There should be no capital seat State become. out of the State to purchase what can be produced in it.

#### PERUVIAN BUTTERS

Elsewhere, in this number, will be found an advertisement, relating to this popular remedial agent to which we call special attention. For various nervous affections, as for example, neuralgia, headache, malarial diseases, dys pepsin, debility, etc. It has been pronounced one of the very best of remedies. good reasons wby it should be so regarded. It is composed of ingredients known to possess great medicinal virtues; the principal one being the sulphate of quinine, prepared from the bark of the chinchona tree which is so highly valued in medicine. We learn that many physicians often recommend the Peruvian Bitters for the complaints we have named They are prepared under the supervision of We advise all skillful doctors and chemists who uny require a pleasant beverage, a good uppetizer, tonic and mild stimulant, to test the virtues of the Peruvian Bitters. & Co. are the Sole Agents.

#### SHAK-WORM CULTURE.

We learn that in several sections of the Shite silk-worm culture is receiving quite un impetus. One gentleman, nu Italian, in Amadoi county, has butched out and is growing several million of workers of silk, in the shape of ing silk-worms. He has also erected a hunblud and machinery for the manufacture of silk by a new process

#### BUILDING ACTIVITY.

All indications point to a senson of extraor dinary building activity during the wext few months in this city. During the last two years a great many improvements have been made in San Francisco, but from all that we can lead from reliable sources they are likely to be celipsed by those of 1883.

Cultforninus should feel a prule ma publica tion which is doing so much for the State as this journal is, and send it to their friends

#### THE FOOT-HILLS OF THE SIERRA. Her Great Crowning Glory.

(Written for The RESOURCES OF CALIFORNIA, by James C. Kemp.]

Many of the readers of the article in the April number, upon the subject of the foothills, have doubtless wondered how it has happencil that so many of those who have emharked in the business of viticulture and fruit raising selected valley lands in preference, paying, in many cases, from one hundred to three hundred dollars per acre, when the region I have described was, much of it, onen to preemption, and, at all events, could have been. and can now be purchased at from two and half to five dollars per nere.

To make a comprehensive explanation of this matter will be my present purpose, and, having maile these prefatory remarks, I will at once to the subject under consideration

As I stated at first, California, in 1849, was an almost uuknown region, and certainly its tremendous resources were never to much as dreamed of by the early Catholic Inthers, original Spanish and other settlers; those even who crossed the plains, in 1846, locating ou the hottom lands of the rivers-the Rhodes family, Daylor and Robinson, settling upon the Cosumnes, at a point some twenty miles from Sutter's Fort, near the crossing of the old stage road from Sacrameuto to Drytown, Jackson and Mokelumne Hall.

The immigrants of 1849 went, in most cases, direct to the mines or foot-hills in search of gold aloue. In fact, they had but one purpose, and that was to obtain the object of their efforts by washing it from the earth, and, havmade their " pile," to return quickly as possible to the homes from wheuce they came, none scarcely having any idea of remaining here permaneutly. For several years afterwards, it was conceded by all, that California could never become au agricultural State, and as to viticulture, the man who proposed it, would have been looked upon as a lunatic of the very worst type. The wbole Sacramento valley was supposed to be a vast and generally barren waste, while the San Joaquin was considered a miniature Sahara. The foot hill region was not so much as thought of, except for gold washing; and even when such vegetables as potatoes, oniona, tomatoes and turnips sold readily at 25 cents per pound, and a fair-sized watermelon was almost a legal tender at a couple of dollars, no one ever thought of raising them in the foot-hill towns, the whole supply coming from the hottom lands of the Sacra mento.

Precedent is a terrible factor in human affairs, and, as every one knows, when once a doctrine has been promulgated by some eminent authority, and for a long period taken as gospel truth, everyone falls into line without giving it the least question, and thus it has followed that the whole civilized world bas often gone on for years in continued error, and finally, when the real truth was shown up, mankind has marveled at its simplicity and at the absolute stupidity of their aucestors and themselves.

Thousands upon thousands of men are poor to-day who might have been immensely rich had they only have had the moral courage to think for themselves, and not, when the grand opportunity was theirs alone, to have blindly followed senseless precedent.

After awbile mining hegan to wano, and men were forced to look to other pursuits. Land was broken np, and from 60 to 100 busbels of grain to the acre the result. In such towns as Coloma, Placerville, Nevada, Grass Valley and Sonora several courageous souls were brave enough to face public opinion and plant a few peach stones, and when, four years later, the trees commenced to hear, such sights had never before been seen, people traveling handreds of unles to guze upon the great wonders, as they were called; every limb obliged to be propped up to keep from breaking down with its impacuse load, and absolutely thousands of leaches upon a single tree! Such unheard-of results stimulated production, and a few years later it was impossible to sell the fruit, as each town had a full supply; the cities of San Francisco, Szcramento, Stockton, and Marysville farmshing a nurket, but the cost of transportation absorbing more than the full proceeds. Between Sonoma, Napa, and Santa Chra valleys there was chean water communication, and it was to these localities, and for the foregoing reasons, the viticulturists and fruit-rusers turned their attention.

The reader will bear in mind that thirty-five years have passed since the discovery of gold in this State, and since then there has been a We now have several overland great change. furlroads, and will soon have more. Canning factories have multiplied, and fruit drying has become an art. The whole lusiness of raising fruit, cauning and drying it, has been reduced right down to the utmost simplicity, and it is only very lately that people have waked up to the great fact that California is destined to become the home of millions of the happiest and most prosperous people on earth. It has been discovered, too, very lately, that the foothill laudsstraight through, are the very best, possible, for grape and fruit-mising; that for this purpose they heat the richest valley hunds two to one, and further, that the products are infinitely superior. This was indeed a revelation that, as I said before, no one had ever dreamed of. At New Castle, near their base, the most superh peaches, pears, plums, and strawberries have been raised, on land that, twenty-five years ago, would not have sold at 121/2 cents an acre. At Auburn, in Placer county, Dr. Crandall has raised some of the finest fruit ever produced in America or any other country while the viticultural products of Coloma, Placerville, and many other mountain towns are known far and near, and their fruit commands the very highest prices. The fruit raiser must not expect to sell his product in a ripe state to he eaten, but, on the coutrary, to dry or can it. Canning factories and drying establishments are being started everywhere and can be erected in the footbills just as well as in the valleys, and under such circumstances as these, there is no need of buying valley lands, especially when those I have alluded to are actually the hest for the purpose. But besides all these reasons that I have enumerated there is still - ne more, far more potent than all the rest. It is this; water is very plentiful in the mountains, the rainfull being, in many localities, three times as great as in the valleys This in a great measure does away with the necessity of irrigating, and as the weather is colder there during the rainy season, and the spring later in coming on, there is far less danger from frost, the trees not budding so soon as in the low lands.

Another great feature of this region is the absence of those dessicating north winds, so common to the valleys, and which sweep through them from one end of the State to the other, but scarcely ever reaching the altitude of the footbills.

Some fifteen years since there was a mun at Mokelumne Hill who went flown the river to u point near Lancha Plana, and Laving selected a piece of land then covered with chapparal. commenced to grub and clear it off. He was absolutely the laugbing-stock of the community. He kept ou, however, and having fenced his land, planted vines and trees, and tor many years has had a most beautiful place, his fruit being of the very best quality, all of it finding a ready sale in this market, being brought hither from Gult, over the railroad.

In passing a shop window we often see pictures tacked up which appear to be nothing more than landscape views. We are told, however, that there are horses, dogs, cattle, houses men, women, etc., plainly visible if we hunt for them. We look in vain, until some one, perhaps, points them out, and theu we see them very plainly, and wonder how it was we could not discern them before. It is the same way with the foot-hills. People took it for granted that they were worthtess, and would not think otherwise. Now, they can see the whole matter just us it is, and wonder how it could possibly have been they were such idiots.

There was, as I said before, a time when any thing a person could raise would bring 25 cents n pound, with almost no limit to the demand, and yet men would go about prospecting for six dollar diggings, when they could positively bave made \$50 per day raising vegetables.

To enumerate all that his been done in the viticultural line in the foot-hills, would be a task I have not time to undertake, even if I had the data; but it will suffice to state that. in all the old mining towns, there are gardens filled with every variety of tree, vine and shrub, and the yield is prodigious, while the quality is far above the valleys. The newlyarrived immigrant can prove the truth of this by visiting any of our mountain towns.

It is an old, and true saying, that he who would get rich, must make haste slowly; and

certainly, a most excellent motto.

It was this insane desire to get money, so prevalent even now (I do not mean wealth, but hard metalic gold), that completely blinded the eyes of the early comers. All any man plough, cultivate and plant, and see that he does it well Keep on improving day after day, week after week, month after mouth and year after year. Neither thinking or caring about mouey (in a metalic sense), and the first thing he knows he will have a property worth tens of thousands of dollars, that he can convert into gold, if he desires, at any time, I will enumerate some of the products that can be raised in the foot-hills, and ask the render to stop short, and him or herself consider the question, whether any other section, all things considered, can offer such grand and consummate advantages?

Apples, pears, plums, peaches, prunes, cherries, figs, nectarines, pomegranates, limes, lemons, oranges, every variety of grape, raisins, olives, apricots, citrons, strawberries. bluckberries, gooseherries, whortleberries, barberries, raspherries, currants, together with ulmust every vegetable and cercul belonging to the temperate and semi-torrid zones. All the flowers of both Europe and America, and that too in the granilest profusion. Hundreds of rare plants, that can not be raised East on account of the shortness of the season, bere grow to perfection. These are literal facts, and for some unaccountable reason are actually so apparent that people do not see them. It is no idle talk to say we are blessed as no people ever were before, but, on the contrary, is absolute truth. The son of the rich man, who will be heir to millions, does not realize his good fortune, and, in like manner, our sonses are blunted. The fact is, this State is literally overflowing with luxuries that are com nou property, but, living right here, we take them as we do the supply of air and water. I consider that the man does not live who can overrate or overstate the grand resources, climatic advantages and natural luxuries that are the common property of every person, high or low, in the foot hill portion of California; and further, I deem it to be the solemn duty of everyone to make these facts As I said in the commencement of the article in the April number, this State has un individuality of her own, there being but one California tu this world, and her only counterpart that world itself.

When we once consider what might he, what countless comforts we all could easily have, how lavish and profuse nature has been, and then turn about and see how vainly and foolishly we follow after miserable, ignoble ends, is it a wonder the foot-hills have been lost sight of? Do not neople always choose the longest road, the hurdest method, and are we not ready at all times to go in a diametric ally opposite direction to that which good, plain, common sense dietates?

Think how many there are who toil night and day almost, pay n frightful rent, go without sleep and proper food, in the vain attempts to eke out a miserable living in a large city, when one quarter part the labor, expended upon a fruit ranch in the foot-hills of this State, would bring them pleuty, comfort, peace of mind, and, better thun all, a home, and with it total exemption from (I was going to say that almost sole cause of poverty), the rent-collector, who never fulls to make his appearance upon the first of each month, demanding his money in advance.

Is it not time we cut loose from this disgraceful throldom? Have we any right, social or moral, to inflict such a ourse upon our children, even if we choose to submit to it ourselves? It is all nonseuse, sheer, unadulterated nonseuse for anyone to say the thing "cannot be done, it requires capital," etc., etc. It requires nothing scarcely but indomitable will and that immortal sentiment, to do or die. What do we do when war comes, or when shipwreck forces us to take to the houts or to a ruft; or, in other words, when steru, uncompromising necessity brings us up with a round turn? say, and I declare it openly and above board, that the old residents of this State are the most nograteful people, in some respects, that ever existed. Ungrateful, I mean to that God who has placed as all in such a section and amid so much natural wealth and intherto unheard-of sorroundings.

The writer, on the last day of 1882, went out of the Golden State are gradually enlarging.

" be sure you are right and then go uhead" is, | into a flower-garden in this city, amid three good square inches of snow, and picked a mussive bouquet of twenty-seven different varicties of bountiful flowers, and sent it to the editor of a paper in Massachusetts; this, in the dead of winter. In such a winter as may not come again for tifty years. Think of a country where a party of ladies taking a sleigh ride amid fields of waving grain two feet high, could stop their team, butch their burses to a post, and then, standing in three to four inches of snow, each pick, from an adjacent garden, a beautiful honanet! Now this might have happened within six miles of the City Hall, the parties could have improvised a sleigh, And thus it proves in this fair State that even the cold, bitter, rugged winter of other sections, becomes, like the ice cream of a hot summer day, a decided laxury-coming to us in a sort of mimic theatrical way at noon to-day, and vanishing again before daylight tomorrow.

> I wonder what the residents of Wisconsin or Minnesota would think of such an one as I have described; and yet we take it all as merely a matter of course, as a sort of good joke played upon us by nature, simply to show she has not forgotten us, bud us we are. Reader, how long will this continue? California has commenced to boom, and immigrants are pouring in. The great railroad and steamship line, from Oakland wharf to New Orleans and Europe, means business; and the foot-hills of California, although they will stand forever, probably just where they do now, will soon belong to other people, and our children and grandchildren, if we don't look sharp, will sarely become the servants of those who shall then have become the possessors of the soil

SAN FRANCISCO, May, 1883.

#### AN IMPORTANT REAL ESTATE SALE.

We desire to call special attention to an advertisement, in this issue, of the sale of choice lots, situated within the limits of this city. It rarely happens that such a favorable opportunity occurs for purchasing real estate so advantageously situated and on such easy terms. There can be no question but this property will, within a brief period, he in the very heart of San Francisco. It certainly presents great inducements to all buyers, especially those of small meaus. In our opinion, no safer or better investment can be made. sale affords a rare chance of gratifying the wish of those who have long cherished a desire to possess homes of their own.

The sule to which we allude will be couducted by Easton & Eldrolge, the well and favorably known real estate agents and auctioncers of this city.

#### MANUFACTURES.

That no country ever grew rich by agriculture alone is, we think, a sound proposition. Manufactures are needed also. It is through the solidarity of its industries that a nation prospers. Examples of the benefits which manufactures are working to the States of the South, for instance, are numerous. Here is one of the most striking: "Eleven years ago a number of Northern capitalists staked out a town in Alabama, and called it Birmingham, To-day the town has 10,000 inhabitants, and is drawing new residents at the rate of 500 a your. In the town, and its immediate vicinity, 7,000 persons are employed in continues and irons works." We commond this strong bit of information to the business men of Los Angeles.-Los Angeles Mirror.

#### AN IMMENSE LUMBERING SCHEME.

The Sucramento Bre intimates that some capitalists have in view an extensive lumbering nterprise in the northern part of the State The finest body of pine timber in the Sierra Nevada Ranco is in the vicinity of Big Bend, on l'itt river, which bus hitherto been deemed inneressible for profitable milling. It is now proposed to open up this section to market, either by rufting the logs down that stream, or fluming to some point on the Sacramento river where mills will be erected.

#### WHEAT, WOOL, AND WINE.

In these articles, it is stated that California has, within the brief period of a dozen years, mails exportations to the value of \$300,000,000, This would seem to indicate that the industries

#### SALMON FISHERIES

The following interesting sketch, regarding the growth and extent of salmon fishing on the Sacramento, as well as the canning business, was written for the Yolo Democrat, by a correspondent signing himself "R. H. B." of Washington, Yolo

In the year 1849, when entigration was pouring into the State of California, amongst those coming were three young men from Connecticut, whose names were John Ayers, Willaim Shailer, and Charles Chase, who probably were the first persons to east a net into the heautiful waters of the Sacramento, for the purpose of taking salmon. This was in the fall of 1849. They brought with them, from the Connecticut river, a shad net, which, upon trial, was found to be too weak for so strong a fish as the salmon, so they looked about for some-thing that would be suitable for the purpose. Every kind of twine was tried, until shoe thread was need, which, from that time until the present, has superseded everything else. In 1851 there was quite an increase; about this time parties left was quite an increase; about this time parties lettediffernia for the East for the purpose of purchasing fishing tackle. Among them I may mention Junes Booker of Augusti, Maine, and William Fullor of New Haven, Conn., who brought out a large lot of nets which paid them well. In 1852 nets had increased until there were, in and about Sacramento, not less than sixty or seventy. The fishing was nearly all done within twelve miles of the city, although a few parties had ventured as far down the river as Rio Vista, long before the town was started. Among these I may mention John Scully, William Fuller, George Furler and Fred Hofstead. These men (most of whom are now cold in death) were probably the first persons who fished at that point. The husiness did not increase much for a few years. Mr. Wm. Hume, the pioneer in the canning business, commenced this year. In 1853 fishing was carried on all along the river below the city, but the most was done in front of the city, at what was called the Mexican drift, at one time.

The fishermen fished for the markets of San Francisco and Sacramento, there being no other market for their produce, except when there was a large rnn; then the surplus was sold to the salters, among whom was George Cooper, (now doing husiness in Sacramento), and Wm. Frisbie, who died some time since. The business did not increase a great deal from this time until about the time the building of the railroad; as that advanced there was a greater demand for fish, which demand increased until the road was completed. In 1864 the Hume Bros, started their first cannery in the town of Washington, Yolo county, two blocks from the railroad bridge. Soon after they started salmon seemed to have given out, as they grew very scarce, and, in consequence, Wm. Hume started for the Columbia river, and in 1865 moved bis business to that poiet. About a year from that time the salmon appeared again in large numbers, and the run has been, at times, very heavy. In 1869 they were so plentiful that not one-tenth of the catch could be sold. The run has continued to be very good most of the seasons since. In 1869 there were about 200 boats scattered along the river, from Sacramento to Collinaville. The number did not increase much until about 1875, when A. Booth started a cannery at or near Collinsville. Canneries were startou from that time, until now there are not less than eighteen or twenty which are putting up salmon. Within the last five years the increase in the number of boats has been very great, not less than 900 boats will be in use this year. The amount of salmon canned in the State, from the Sacramento river, in 1882 was 204,376 cases, of four dozen cans each. The number of men employed in catching salmon on the Sacramento river this year will amount to over 2,000, not counting the great numbers employed in the canneries. From these figures you can form some idea of the vast importance of the salmon interest to the State of California.

#### SUGAR CANE CULTURE.

Mr. T. J. Barr, of this city, called at the Enter-prise office and gave us some facts in regard to the sugar cane. He was for a number of years engaged in its cultivation in the Southern States, and proposes to go into the business here. He brought with him samples of syrup made from Amber and Hunduras varieties of the cane raised near St. Helena, the past year, which contain, respectively, 70 and 76 per cent. of sugar, and of the flavor. The Amber will yield from 150 to 225 gallons of symp to the sere, and the Hondaras from 400 to 500 gallons, which readily wells at from 75 cents up. The cane ripens very rapidly, insturing in 60 to 90 days from planting. The stalks and seeds possess valuable fattening qualities, and are said to be superior to corn. An acre of cane will produce about 35 bushels of seed, which sells for about 75 about 35 bushels of seed, which sells for about 75 cents per bushel. Mr. Barr says he will put in some 40 acres this year, and put up mactieery for making syrup. The samples above alluded to can be seen at this office, ingether with stalks of come and the seed. Mr. B. will give further information to those calling on bitm, and furpish seed to anyone who may wish to experiment.—Healdsburg Enter-

#### TONE VALSEY.

This valley is located about 40 miles southeast of Sacramento City, and is bordered on the east by the foothills of the Sierra Nevada While on the west, north, and south, the valley is surrounded by low, rolling bills. Being located as it is, this valley is seldom visited by the heavy north winds that occasionally are felt in the larger valleys of the State, Ione city, the principal town of the valley, has a population of about 700, and is located on the eastern border of the valley, close up to the mountains, and at the terminus of the Amador Branch Railroud, which brings the valley in direct communication with all the murkets of the coast.

The climate of this valley cannot be excelled; it is healthy and invigorating. The soil is the richest in the State, and onpuble of producing all kinds of fruit and vegetables, without irrigation. Ione City is furnished with a good supply of mountain water, which is distributed through the principal streets in pipes, and onn he used for sprinkling streets and irrigating flower-gardens, as well as for other purposes Here is also located the finest brick school building in the county, and several large and commodious churches.

This valley is almost proof against drouth, and good fruit, vegetable, and vineyurd land is not high, considering its fertility and richness, but it is rapidly increasing in value, and those who invest now and improve what they buy will be sure to grow wealthy in a few years' from its increased value. The footbills, as well as the valley, will, ere another decade, be dotted over with happy homes in the midst of vineyards and orchards, with nest, comfortable cottages, and pleasant drives in avenues lined with the fruit and flowers of the semi-tropic and temperate zones .- Ione Valley Review.

#### SIERRA COUNTY MINES.

The Forest City Tribune says that the Sierra Buttes Company, at Sierra City, gives steady employment to 300 men. About 180 men are employed in the Bald Mountain mine at Forest City. At the Bald Mountain Extension, and other mines in the neighborhood, large forces of men are employed The Alaska mine at Pike City has 70 men, and the Marguerite mine at Logansville gives employment to the same number; the Rainbow mine on Chipp's Flat has given employment to 50 to 70 men during the past year.

#### RICENCEL ADJUS

A correspondent of the New York Herald, writing from France, says:

give an idea of the dalry Industry in France, M. Hervo Mangon recently stated at an agricul-tural gathering that the pilk produced in the country would, if collected, form a stream about one meter in width and 33 centimeters in depth (say three feet and four inches and one foot, one inch), flowing night and day all the year, with a mean velocity of one meter per second. Young animals drink a part of this enormous volume of milk, man takes a good part of it, and the rest is transformed into cheese and butter. No branch of agricultural industry has so far progressed during the last 50 years as the making of butter. In 1883, France bought abroad 1,200,000 kilograms of huiter, and sold to foreigners only 1,100,000 kilograms. She now exports 34,000,000 to 35,000,000 kilograms butter sumpally, and receives in return from abroad (especially from England), a sum of more than 100,000,000 francs.

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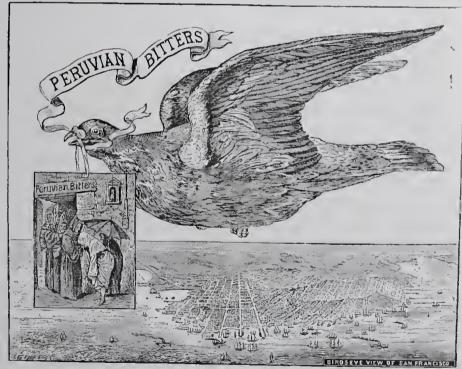
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der Cr. complete with Pacific Baw Mfg 120.5 Extra Cost and flied, ready to work, each, \$1.50, with second quality blade, so and flied, ready to work, with imported blade, so and flied, ready to work,

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GOLD DEPUSIT ON THE KLAMATH RIVER BED,

It will probably not be disputed that that Klumuth river had is the largest and yet the most concentrated depository of an exclusively gold-bearing country that there is on the Pa-cific Coast. There is no other river draining so large a territory that is all gold-hearing, as the Klammath and its tributuries. This is a fact that will be apparent to all apon a cusual glance at the various placer districts of the coast and their drainage. Every other river of equal magnitude, while they may drain and carry the wash of considerable gold-hearing districts, also carry the debris of large sections ntterly barren of anriterous deposits, thus filling their beds with much material that has no treasure in it. In this respect the Klumath river is a remarkable exception, and with no STANDING COMPARISON WITH THE intention to deal in the scusntional, il would not require a large amount of credulity to become convinced of the fact that there is fabulous golden treasures deposited in its channel, the accumulations of thousands of years' grinding from nature's mills. For 150 miles from the ocean every creek or tributary that puts into the Klamath river has its history of successful mining in the early days. Commencing below Yreku, and following down the river are Coltonwood creek, Scott river, Indian creek, Elk creek, Clear creek, Independence creek, Dillon's creek, Rarky creek, Salmon river, Camp creek, Boyce creek, Red Cap creek, State creek, Bluft creek, and Trinily river, flowing consecutively, one after the other into the Klamath river, bringing with them their gold-hearing debris, with no stream in the whole distance to mingle barren matter with the golden deposit. Can we come to any other conclusion than that there is fabulous, unmeasured freasure in the bed of the Klamath river? The current of the river is a power which, if harnessed, our scarcely be calculated. It appears to the Shindard that no enterprise of mioing for treasure could be undertaken with such definite, langible object as the galbering of the gold which ages upon ages have deposited in the river channel of the Klumuth. Where the bottom has been reached by wingdaming in limited places, thousands of dollars have been taken from a single square yard. Is it not possible to raise this golden gravel from the running current in a wholesale monner?-Hamboldt Stawlard.

#### OUR FRUIT CANNERY.

The lot is being graded and lumber hauled to the ground for the fruit cannery, and seven carpenters have already commenced work erecting the building. The company bas erecting the building. The company bas bought a steam boiler with attachments complete, and all the necessary machinery for the business. Sufficient tin has been purchased to make about 300,000 cans as a starter.

It is intended this season to can all kinds of fruits and vegetables, and next year the canning of salmon will be added to the business.

The company expect to give employment, during the busiest portion of the senson, to from 100 to 150 hands, at reasonable wages. This is nice work for women and girls, in fact the managers of other canneries say that for most of the work required, they would rather have females than males, and the latter prefer it to other kinds of work.

The henefits of this new enterprise to our community can limitly be over estimated. It will help both town and county. It will furnish a fair markel price for the surplus frails and vegetables we can raise. We have a large area of as fine fruit and vegetable land as can be found anywhere, and it can all now he made more profitable by raising frants, sweet corn and vegetables, than raising politoes and grain as heretofore.—Petaluma Convier.

#### FINE ORCHARD.

Daniel Craven, who lives about a mile and a half southeast of Mooretown, has no orehard that includes 1,500 apple trees. All the best known and favorite varieties are grown. Last year be russed about 18,000 pounds of apples, lint owing to the wint of market he feel an immenso quantity of these to his higs. He has pears, cherries and other finit trees, besules 1,800 walnut trees. Raspberries, straw-horries and blackberries do finely on Mr. Craven's place. Last year he had about 2,000 pounds of the last-named fruit .- Buffe County

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#### CLEAR LAKE.

The following is an extract from Major B. C. Thuman's description of this beautiful sheet of

is in Lake county, which was organized in 1861 from a portion of Napa county. It is an irregular sheet of water, between 25 and 30 miles in length, and is in some places from len to twelve miles in wilth. Its general depth is about 40 feetalthough it is more than double that depth at what is called the Narrows-and is about 1,300 feet above the sen, or about the same elevation as larke Ge neva in Switzerland. It is almost surrounded by mountains and high hills, with here and there a lovely indentation; and the tower part of the lake is picturesquely detted with islands, all of which are hemitifully wood d. The largest is called Elem-henden (Imhan for thradise). Another very pretty island is called Ho-yem-den; it is only a short distance from Sulphur bank (or East lake), and would make a summer resort fit for a king. It is owned by T. P. Madden and Capinin R. S. Fluyd, of San Francisco. Mr. Joseph Rasthind, of San Francisco, also owns an island near by. The waters of Clear luke fall from six to ten feet during the dry season, and empty into Cache creek, whose waters flow into the Sacramento river.

There are a manufer of pretty towns lying upon and adjacent to Clear take, among which is Lakeport, the county scat of Lake county. It contains about 1,000 inhubitunts. It is situated upon a series of terraced elevations, and is abundantly shaded by the foliage of clusters of immense cake. The landscape scenery is very beautiful. At the bend of the lake is a little town called Upper Lake, with 400 inhabitants, an hotel and livery stable The valleys in this vicinity are very heartiful and Lower Lake is also a pretty place, and contains nearly 500 inhabitants: It is situated some three miles away from the lower part of the lake Sulphur bank, or East lake, is situated on the lake, and is ten miles from Lower Lake. There are large quicksilver works at this place, giving emplayment to nearly 300 men.

#### THE GARDEN SPOT-RIVERSIDE.

Judge Whaley, of the Suu Luis Rey Star, visited Riverside last week, and, in his next issue, be talks enthusiastically, using the following language:

Probably the most benuliful, most enchanting spot in Southern California, in fact, in our whole State, we visited it few days ago, while on a trip to San Bernardino-that place is Riverside. Here, only a few years ago, was a barren waste of desert country, which can now be well called the garden spot of the world. Here have the people who dwell therein, spent money and worked with coterprise toward rearing a monument to their labor. The principal industry of the settlement is centered in the production of citrus fruits, and at this season of the year, while the oranges in untold quantities are ripening upon the trees, a rule among the groves is a sight well worth seeing. The water supply of River-side is obtained from the Santa Ana river, which runs by the settlement. So perfect has the system of irrigation been made, by ditches, and with the abundant supply they have, the prosperity of Riverside is easily accounted for. The ornamentation of the settlement is most beautiful, and no lack of expense seems to have licen spared in accomplishing this end, the most prominent fenture being her benutiful and nicely-trimmed cypross bedges. Her private residences, many of them, are magnificent, and, on the whole, wenr a decided air of comfort. The people of this village should be happy in their hames, in the land of fruit and the vine,-Riverside Press.

#### OLIVE CULTURE

Considerable attention is now being given to the probabilities of successful dive culture in this State. It is said that in the year 1881 there were imported into this country from Italy nearly one-quarter of a million of gallons of olive oil, and of this quantity one-fourth, at least, was cottonseed oil which had been sent to Italy from the United States. Now if, as there is good reason to helieve, the olive will flourish on our foot-hills, and indeed, almost unywhere, there seems to be no good reason why its cultivation should not be profitable, The olive is a tree of slow growth, beginning to hear in about its eighth year, but it endures for centuries. In the country hordering the Mediterranean there are families which have heen supported for generations by the pickled fruit and the oil of a few olive trees. Even if it be not grown for profit, the olive is both ngroundle and a healthy article of food, and ery farmer in the county should plant a few of these trees. - San Jose Herald,

#### THE WOOD RIVER CHUNTRY.

A correspondent of the Satl Lake Technic, of recess

thite, makes the following report from Senate hill:
From the top of this alli, which is about 12,000 teet
high, I have an extended view of the country. Mount alms and valleys in all directions; from east shie waters run into the east tork of Salmon river; west side be drained into Wood river, the very heart of the stream; drained into Wood river, the very new miles one can see the beadwaters of Wood river, Sulmon river, South Belle river, the Smoky streams, and Lost river. At this works, when realon is covered with a mantle of sunw from the wood region accepted with a manufacture from the lo twenty feet in nepth. Several limited mountain peaks can be seen from this point, which seems to be the top or summit of all this region of country. Small streams flow to all directions from here. Country abundantly limbered—all the canyons and trillshies up to 7,000 or 9,000 feet high, are talekly oded with red and white fir, spruce, and several spr-s of pine, well adapted to building of ratironis, for mining an lother purposes, for many years to come,
Water-power is unlimited for mills, smelters, etc.

Water-power is unlimited for diths, sinetters, etc.
There is an excellent oppoling for any party who wishes
to make a plant, with a mill smeller or endountralor.

In make a plant, with a nill smaller or encountralor.

This point is about the center of a very rich inherest region. It is among the heat of any known in America. We have a great variety of ores, some of them very rich, to this vicinity ores are chiefly argentiterous galena, sulphurets, carbonaics, etc. On Senato hill the principal interest now opened we the Senate, Red Cloud, Chief, Wellington, Conway Castle, Modoc, Last Chance, Occident, Annador, Nellie Moore, and many more good-looking mines.

More work has been done on the Senate mine than

It has a shaft sunk 240 feet, and a tuppel to 140 feet. The ledge is thirthen feet wide, and tooks

The Red Cloud is a very large ledge. It is opened by a shaft about 75 feet and a tunnel, and a good quantity of ore exposed at the bottom of the shaft. Large quan-tities of good ore were taken from this tulne and tho Sounde last scason, and they will be worked extensively this season. The owners expect to ship several bund-red tons of buillon this season from their similar, near by, which is now h good order, with a supply of coal and everything mady to start as soon as the snow is gone, so that ors can be banded. They have a good pent, and a valuable property, and expect to pay good

The Conway Castle company expect to commence improving their property and working their mines as soon as the weather is suitable.

Modoc is a very large ledge 20 to 30 feet wide at ening. The ore is argentiferous gatena and car-The opening. The ore is argentiferous gatens and car-bonate. It has well-defined watts, and promises to be one of the largest and hest indices or Senate hill. It is well located, and can be easily and cheaply worked, But little work has yet been dane on this mine, ja ent run across the tedge some 25 fret, and 20 to 30 tous of ore taken out). Its owner expects to continue work on it soon, and will prosecute the work with all

possible energy.

The Occident is a very promising mine, an open cut on the ledge about 60 fert long, and deep. The ledge is well defined, and looks well.

neep. The leage is well itemed, and looks well. Hhas several tons of rich ore on the dump. It is a handsome prospect, and will be worked this senson. There are several fine prospects extending south from this bill for several unites, notably the Tonnessee, Highland Chief, Alps group, Teinterfoot, Silver King,

#### THE BACKBONE MINING DISTRICT.

The mining district hearing the above name, in Shasta county, gives promise of making times lively in that neighborhood for the coming six or

eight months. The Courter says: It is shout twelve miles northerly from Shasta, bounded by the Little Sacrameuto on the north, Squaw Creek on the south, Sacramente river on the east and Sugar Loaf Mountain on the west. In addition to several amaller ledges, discovered last summer, it embraces three or four miles of the great Iron Mountain silver ledge and a recently discovered gold ledge, hig enough to make a score of average ledges that other sections boast of. The California and Oregon Railroad passes through this district, and a station is to be built at the well-known Hovey ranch, near the month of Squaw creek. Thus the district will have direct communication with San Francisco, New York, New Orleans and Reilding. The timber of the district is first-class and abundant, and the several tributaries of the Sacramento passing through its limits, afford water the year round sufficient for motive power. The Copper Q Company (Arizona and San Francisco) own The Copper Queen full claims on this great silver ledge, four of which join each other, making an inbroken stretch of 6,000 teet. Members of this wealthy company have recently purchased a claim on the inniense gold ledge above mentioned (100 lest thick), making a grand total of 9,000 linear feet owned by the above-mentioned parties. The work of the company is under the direction of dolin L. Cook, a Ther, whose experience, integrity and industry are well known to old Catifornians. He is assisted by W. W. Nichols, an old-time Comstocker, whose knowledge of mining, theoretical and practical, makes him a valuable factor, and the Cupper Queen parties made another lucky bit when they scentred the services of lines two gentlemen, to whom belongs the credit of eshablishing the luckhone Mining District, and of being the first to be gin the systematic development of the mines that will, ere long, give Shastn county a buent that must remind our plousers of the guod old times of "twenty years ago."

The Courser-Rem thus speaks of the thrift and improvements of Santa Cruz county:

From personal observation in various parts of the county during the past week, we are satisfied that there is more thrift and improvement new visible in this county than at any previous time in its his lory. There is not a school district wherein the igns of progress and developmentare not apparent. From the valley lands of Pajaro to the peaks of Ban Lomond, from the coast farms of Sequel to the vineyards of Highland there are evies of present prosperity and future promises. New farm houses and new barns abound in almost every neighborhood, and must of these have an ap pearance of comfort and permanence not indicated Thousands of acres by the cabins of earlier days are being cleared and made ready for the plow this year which have heretofore served as a cover for quail, or the luven of the jack-rabbit. farming is noticeable on the longer tilled lands of the valloys, and the increased importance of the orchard altraots attention everywhere. In all the foothill cauyons, large fields are being cleared and grubbed, preparatory to planting fruit trees vines, and the present outlook is that the fruit-growing area of the county will be increased 50 per cent, the coming year. All of this newly-cleared land is yielding a large quantity of wood, and much of it furnishes valuable lumber. This is especially true in the vicinity of Glonwood, where hundreds of acres of magnificent timber have succumbed to the axe and the saw, and soon the broad of the vine will cover the ground long sheded by the dense foliage of the redwood forest. The growth and appearance of the young ordinards and vineyards, and the returns from the older ones this year, is calculated to encourage the fruit-growing industry: in fact, it demonstrates, bryond a cavil, that fruit-growing is not an experiment in Santa Oruz county, but a positive success. From points of vantage on Vine Hill like vinoyards form the distinctive feature of the landscape, and each year marks an increase in their extent.

In the grain-growing portions of the county farmers are well advanced in plowing and seeding, and ready for another installment of rain.

Along the Aptos everyono is anticipating a hig boom to attend the construction of the rathroad up that stream, and preparations are well under way for the orection of saw mills and for the output of an enormous amount of lumber products.

Adding to these facts the other important ones that the lime works, the powder-works, tho milis, the flouring mills, the tanneries, and slt our manufacturing enterprises are not only active, but prosperous: that there is ready work at good wages willing band, and the combination is that ought to eucourage and content us with the assurance of a permanent prosperity, more reliable, it less rushing, than the "good limes" of other

#### T E FOOTHOL LANDS.

Much bas been said as to the future of the footbill section of the State, and the more we see at it the more convinced we are that the time will come when the rolling bills and now wooded slopes be covered with vineyards and orchards. are hundreds of thousands of acres lying along the base of the Sierra Nevada morniams-to nothing of the Coast Range-which need only little time, the liberal expenditure of muscle and some mnney to become as productive as any in the State. These acres are now, with the exception of here and there a "clearing," covered with a dense growth of scrub caks, small pines and chapparal, and are the home of the rabbit, the quall and the supirrel, and now and then a flock of sheep or goals. relieved of its brush and timber, the ground is found to be rich and productive, grapes and other fruits growing thereon readily without irrigation. The clearing of these lands is their great drawback at present, as poor men can not well afford to spend the necessary number of years to bring them into a state of cultivation. The clearing of these footbill lainly, and the development of their resources ought to claim the attention of capitalists. The hanks of the State are filled with coin which the owners are willing to loan at very low rates of interest, but they all demand "improved" real estate for security. It the large moneyed men would use a portion of their idle means in placing these foothills lands (which they can purchase at low figures) in condition in be made productive, they would find no difficulty in illaposing of them at a fair profit, thus not only benefiting themselves but their less torinnate followmen. Or, they could afford to make losus on these lands, at less than the prevailing rates of Interest, giving the borrow ers such terms of years, in which to repay as would to get substantial returns from their orchards and vinewards. -Succamento Bee.

#### GRAPE CUCTINGS,

It is stated that one vineyardist in Napa has sold upward of a million grape entrings this sea-son, mostly of the black Burguidies and Scinvignon varieties. The price was ten dollars per thousand. Selling grape cultings englit to be a paying business at that rate.

#### PROFIT IN WINE-MAKING

We have received from Gustave Weyhard, of Arlanckle, some of the wine he made from his crup of grapus of last year, which we have submitted to several gentlemen who are competent judges, and all pronounce it the very finest for wine of that ago. Mr. Weyland has made wine in Germany, and has taken the pains with this wine that are taken with the very hest wines in that country, and he is entirely satisfied with his experiment. This wine will be worth several defines a gallon when it has a little more age. He has only about three acres of grapes, and after a great many grapes had been used out of his vineyard he unale a 400 gullans of wine. Any man who has the land on which to grow the grapes, and who knows how to make such wine, is failish to throw away his time on whort. No better wine has been made in California. Mr. Weyhuid has certrinly demonstrated that the plane lands of Column county cannot be surpassed for wine-making. Neither has his grapes had any water, and, thry as the senson has from, the grape crop will not be a failure. Each farmer on the plains could have veral neres in vines without having missed the time or the money used in bringing them We must thift into something beside to bearing. wheat, and Mr. Weyland deserves the credit of being a nioneer, so far as this county is concerned, in mr industry that will be almost unlimited in a few years. Colusa Sien.

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New Orleans Ios. Ass'n. .....New Orleans. \$573,216.

St Pinul P & M. Ins. Co. .. St. Paul, Minne \$1,048,673.

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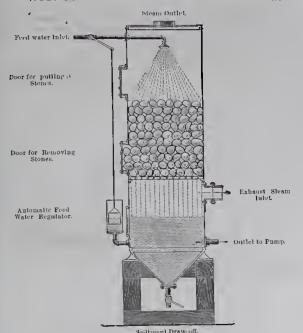
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WISE people are always on the lookoot for thances to incrues their earnings, and in tune become wealthy; those who do not imprave their opportunities remain to powerfy. We ofter a chance to make minery. We want men, women, toys and girls to work for me right in their own localities. Any uncertainty the work properly from the first text. The histories will pay more than ten these orders want to be a proper of the property of th

FIGUR LANDS. The following article, which we take from the Los Angeles Express, shows what fruit lands are selling for to different parts of that county, and also the revenues in them, when covered with orchards and

The question is often asked " What are fruit and grape lamba in Southern California worth?" The an-swer, of course, will differ widely, according to the la-cality selected, the nature at the water right as to both title and supply, the proximity to the city, or raticoal facilities, the nature at the soil, and the class of people one will have for neighbors. The last item would include chirren and school accommodations. The first way to answer the question will be to give the sales of real estate in various parts of the country, and of record

The first place selected is the linarte. This is well known as one of our most attractive acithograuts. soil is supertor. The elimits is the pier of mig. The community is industrious, quick and infelligent. The transactions given below are from the records in the transactions given below are from the records in the County Clerk's office, and were all made during the present season. Most of the property has changed hands within two munths. Mr. Buer sold to Lieutenaut Wisn twinty acres at \$5,000. The plane has some im-provements on it. Mr. Boer purchased from Mr. Alexander Weill twenty acros of mutuproved lainly with water, for \$1,500. Mr. Moses Mitchell bought for acros of raw lainl for \$1,000. Lieutenaut Wise sold twenty acros of raw land at \$3,000. On this piece a himse cost-lus \$4,000 will be built. Mr. Warfell marchised from ing \$4,000 will be built. Mr. Warnell purchased from Mr. Weill sixteen acres of rough brush land for \$500. The chapparal will be cleared off this lot, and there is no doukt it will grove fine fruit and grope land. Mr. Bronson sold ten acres, six of them impraved, for \$3,000 Doctor Benrilshe sold 28 acres for \$5,600. Mr. To Chappelon sold len acres, with 100 trees ou it, for \$3,500. In these sales, and, indieed, in most transfers made in the country surrounding Los Angeles, it is solden the buildings can be said to cut much of a figure to the value of the ptace.

Pusadena is more under cultivation, and has better

church and school privileges than many places in this county. Lands noder improvement here command \$1,000 per acre. Usually the banks and outbuildings are of considerable value. Lately Mr Banta purchased two acres, for which he paid \$4,000, and three acres ad-gining, for \$2,000, making an average of \$1,000 per acre. A hotel to cost \$75,000 is contemplated for this The location, doubtless, had usuch to do with the

since Mr Couldin, a new-co chased the old Highy place, corner of Main and Adams streets. It contained about thirteen acres, and brought

streets. It contained attain thirteen acres, and inought \$12,000. The place is well timprovent.

The land at Pointini, one of our newest colories, is selling rapidly at \$50 to \$200 jurt acre, as to nearness in the center and convenience of water. This is, of course, raw land. Lands at Saint Ana and Dawney have also been field at moderate rates. Mr. Haylock recently sold a place ment the tormer place at \$4,600 fm. twenty series, improved land. As an opposite extreme, may be mentioned the sale of the Tultant place, at San Gubriel, of 40 acres, at \$25,000. This place has an abundant water supply, with a good little. There is a good house on it, with outbuildings complete. The ranch is mostly set to orange trees, the greater part of which are bearing, and the rest will come in hearing in a year or two.

which are bearing, and the rest will come in learing in a year or two.

Another question, always sure to follow the auswering of the tormerome, is "What is there to justify such high prices?" This is, of course, the question of one not acquainted with this county out its capacities. Doubtless the mild, equable climate has mitch to do with this matter. Those who have lived here for a few years, and who know the comfort attendant upon life apeut under our sunny skies, where rainy days hardly number a dozen in the year, where frosts are almost imbeard of, and where broiling, sullry heat is as rare, do not care to part with property from which they derive an ample revenue. But that is not all. The setual income from haproved farms in Los Angeles is large enough to justify every cent path far the dearest lift of sod in the list abuve. A good wheyard will not, for wine, raisms, ortakle grapes, from \$100 per acre yearity in twee that sum. That is a moderate statement, and can be proven Many vineyards will pay more. A good orange grove, well set and cared for, at maintify of growth will yield from \$200 to \$300 per acre per annum. Choice peaches, apricots, prunes, and many other decidious fruits pay as test as grapes. There are many other enterprises of which lack of space forbids mention at this time, which will pay any energetic man who nees sound judgment in his business.

The writer may way that he was tash autumn in

other enterprises of which will pay any energetic man who noses sound judgment to his busserses.

The writer may say that be was tast autumn in the real estate husiness. He had two elfonts, one of whom wished to buy an old vineyard, the other a frait ranch. In the course of tuquiry, an orchardist was found just untaide this city who has twenty meres, with a small house on it. The place is all set to decidious treer, which are now in full hearing. The owner does his own work, and peddles the fruit in this city. A firm offer of \$20,000 was declined. A vinture was also found, the happy possessor of 30 acros to old Alission vines. There is on the place as plact for making white, and other valuable improvements. This place was offered for \$30,000, or, said the owner. I will take \$45,000, if you will give me the crop now on the vines. Here is the proot of the value of these orchards and vineyards. Both uon backed their words that in weening of the large interest on \$1,000 per aere was now coming of the land.

### POTATO VIELD.

1ir. W. 11 Theorge informs the Inyo Inde-pendent that a gentleman at Bishop cultivated 2,373 pounds of putatines from 12 pounds of seed on a piece of ground two by five rule in extent. The rest the rate of nimeters tons per sere. The variety is called the "white star," and has but recently been introduced in this valley.

#### WILL WHEAT CONTINUE A PAYING CROPE

The following article, by Orange Judd, in the stor-ican signications, will interest the farmers of this State

as well as those shroad. There is a cheertul side to this question. Comparing There is a cheerful side to this question. Comparing a present ratiway map of this caunitry with one live years ago, we see a large increase in the black lines, extending continuously from the Atlantic in the Massis, apply and Missish and fillings in lines are added to those trunk line seery year, and every fresh line added is of special interest to all Western tarances. Competition, great improvements in humandives, freight ears, when rails, etc., are rapully reducing the cost of transportation, and wheat, flour, corn, and other grains, said of and dried meats, butter, choses, etc., are carried almost as cheaply from the Misstssippi to the Atlantic ports now as they were from exection New York Olim, and Michigan only a few years ago. Those cheaper ratiway raises are already raising ago. These cheaper rathway rates are already raising the question whether it will be worth while to enlarge, or even maintain, the great canal routes. New York has alialished tolls on the main water arteries, and it is even teared that, with causi tolls free, the ratiways can still compete with any water transportation.

Can Europe absorb our surplusat poying rates. There is no more well-established fact than that consumption is largely increased by every small dectine in prices At present, in London, white wheat is worth \$1.30 to \$t 40 per lushel, say \$1.35—at this price there is a great and entarged demand for consumption. The regular railway freight from Chicago to New York is naw about railway freight from Chreago to New York is naw about eighteen cents per binshel. Sea freight, New York is London, about fourteen cents, or from Chleago to Lon-don, 32 cents per binshel. Add three cents for fundiling, insurance, etc., and \$1.35 in London corresponds to about \$1.00 per binshei in Chleago, and about \$4 centsis Central Kanssa, notifies on the Missurer iver, and at a consisterable distance north of \$1.20. Both railrand considerable itstance north of St. Faul. Boin railread and orean freights are much lower, which has the effect of thereasing the price of grain here, or of reducing the arice of grain abroad, and thus thereasing the consump

price of grain abrowl, and thus increasing the consump-tion, or partly both of these effects.

The point of the above is, that when wheat can be obtained in Chicago at 80 to 85 cents per bushel, it can be laid down in Europe at prices that will immosely increase consumption, and defy competition from southeastiru. Europe, lucia, Australia, etc., in the principal wheat regions of the West, the estimatic cost of growing wheat and delivering it to near railway sta-tions, is 30 to 45 cents per bushel. At noorise but too tions, is 40 to 45 cents per bushed. At points not too distant to allow it to be freighted to Chicago for 14 to 25 cents per bushed, it will be continue a paying crop at 12 ast until the annual production shall have doubled or quadrupled, and even then we brilys Europe will be a ready customer for all we have to spare, without reducing prices here below remunerallys prices.

#### ITS IMPORTANCE

The Santa Ana Herald touches up the cannery project and irges the importance of such an enterprise in that thritty and rapidly-growing town, as follows:

thritty and rapully-growing town, as follows:
That such an industry would pay, atmost from its
inception, there can be no reasonable doubt, if in the
hands of those who understood the hustices, was
would take a pride in the excellence of the products
turned out, and were emergetic business men, managing
the onterprise upon business principles. There is a
wide range of products that could be profitably canned
in this valley, but the chief product would, of course,
consist of fruit, of whith, it is calculated by those who
have given he matter attention, the valley can furnish have given the matter attention, the valley can furnish this your, at least, 200 tons for counting and the manificative of jams, felles, etc. Our apptes, peaches, pears, spritcots, tigs, and grapes council be excelled anynears, apricols, ags, and grapes contain be exerted any-where for size and quality, and there will be no lack to quantity. There is no better opening in the State than this cannery enterprise, which, somer or tairs, will be reliabilished in the Santa Ana valley. For lounds, indeed, will be those who shall have the foresight to perceive this tryiting opportunity, and take trainedtate advan-

tage of it.

The San Jose factories are notable fustances of the
profit to be made by such cuterprises. There are two
canning factories in that torus, and thoy employ from profit to be made by such outerprises. For read we canning factors in that town, and thoy employ from 250 to 400 bands, one of them putting up, tast year, 1,000,000 cann of fruit, 150 tons of pilles, besties paos, dried fruit, vegetables, etc., and no dufficulty is experienced in disposing of the products. Indeed, these factoris fall to simply the demanda made upon them. As to the expense of a cannery: It has been estimated that a cannery, putting up half a milliou caus per annual, will require mola and machinery costing \$1.67, inclining a steam holler twenty inches by twitte tect, with a stoom dring two by five feet, and pump, \$560. The cannery building can be made to cost much or little, but \$1.000 to \$1,000 will do to start with. In our catinate we have allowed \$400 far the necessary to have a cash capital to operate upon for the purchase of supilies, fruit, and the payment of wages, etc. It will be a money-making enterprise bore, as it has been elsewhere.

tn this connection, the editor of the Analisia Gazette In this connection, the editor of the Anahemi Garette says. "The Los Angeles establishment, it has been reactedly said, was a losing investment, and yet the owners were witting to build a branch cannery here of at Santa Ana, if they could have secured substity enough." The Garette man others, free of all expense, a suitable and convenient site for cannery buildings to be received in Anahem. Have we not parties in Sunta has that will offer similar liminociments for the extablishment of a cannery here? Don't all speak at once.

#### RAILBOANING.

It is stated that there will soon be some 6,000 or 7,000 men at work on the railroad extension above Redding, and it is the intention of the company to reach the Oregon line by the time the Villari

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San Francisco

May

#### THE PROFITS OF GRAPE CHUPURE.

Much has been suid about the profits of grane growing, and some are inclined to doubt that they are sufficient to justify the very high values that lands have attained here. liest argument we can present to such is the following list of prop values from lands in the vicinity of Pine Station last year, as furnished by our wide-awake and intelligent corres- building: pondent at that place:

Charles Wheeler-30 acres, 285 lons, worth \$9,125, or over \$300 an acre. He picked from several Zinfandel vines two viueyard boxes (or about 90 pounds each) leaving a heavy second orap on the vine. He often filled three loves from two vines of Zinfandel varieties. The yield, taken to the cellar, was eighteen tons to the acre, and Mr. Wheeler say that at least three tons per acre was left on account of frost, making a total yield of 21 tous per acre. This vineyard has been heretofore spoken of, and has been visited by several.

R. M. Wheeler-Twelve neres of two-yearold vines, 47 tons, worth \$1,645.

H. M. Pond-Five acres of two-year-old vines, fifteen tons, worth \$480. There are ten acres in the tract, but about half of it was set

I. J. Newkirk—Thirty acres two-year-old, 105 tons, worth \$3,000. All that the land cost two years ago.

F. W. Loeher-Twenty-eight tons from 2,700 viues, some of them young. Over ten tons per acre. Worth \$868.

W. A. Field picked from three-year-old vines 40 pounds to the vine, or three vineyard boxes full from three vines, the same being the vines noted some time summ; also, at about the rate of twelve tons per note for old vines.

N. Sawyer-From right acres of two, three and five-year-old vines, 45 tons, worth \$1,600. Martin Furstenfeld harvested 134 tons, worth \$4,155, from 24 to 26 neres.

J. G. Norton barvested over 100 tons, worth near \$4,000.

J. W. Williams him vested from fifteen acres 100 tons, valued at \$3,200. About a quarter of these are young vines, two and three years old.

Captuin Wm. Peterson barvested from 35 neres 210 tons, worth \$6,000. The Captain says he might have picked about fifteen tons more, but thinks be gut enough. We think so, too .- St. Helena Star.

#### THE SILK INDUSTRY.

The California Silk Association asks the Legisla. ture to aid it, by an appropriation of \$10,000, to the founding of a silk-reeling establishment. The association is not a business corpora-tion; its membership embraces some of the most unselfish and philanthropic of our people. Its sole aim is to encourage silk-growing in California, add to the wealth of the State, and give profitable employment to thousands of women and girls. California raw silk commands 25 per cent. better prices than any other. Without filaiures and a prices than any other. Without flatures and a silk-realing school, the silk industry here cannot be a success. In 32 counties of the State the silk. growing experiments have been entirely successful. Our climate is deemed the best in the world for this industry. The world's production of raw silk is \$400,000,000,000. China and Japan produce \$150,-000,000. Predmont and Lombardy export a surplus of \$30,000,000, atter supplying home manufactures. The United States import annually \$30,000,000 of raw silk, and its manufactures of silk amount to \$30,000,000, and gives employment to 32,000 per-sons. In France, silk-enture is a part of the national education for girls. California, in silk-growing. can give employment to 20,000 women and girls easily; the work is light, and the capital demanded nominal. The superiority of silks depends largely npon the skill of the operatives, and they must, therefore, be educated to it. One lady near Angels' Camp, now makes a handsome income from one or Camp, now makes a nandsome income from one or two acres of mulberries, by shipping cuccons to Europe, at four dollars an ounce. The friends of the association claim that \$30,000,000 can be speedily added to the wealth of the State, by encouragement of the industry, to say nothing of giving cleanly, light, and profitable employment to women and children. It would appear to be an eminently whise act to give the money asked for, in order to disseminate proper information, establish the school, and put on its feet this infant industry which is so full of promise.—Record-Union,

#### FORTUNATE FARMERS.

The census of 1880 tells us that there are in the United States 4.008,907 farms, of which number only 139,241 comprise less than ten acres. This shows what an amezing country this is-a country of large farms, the owners of which not only make more than a good living off them, but, with the rapid increase of population, become rich by the rise in value of their lands.—Nevada Transcript.

#### COST OF BUILDING MATERIALS.

People who intend to come to Southern California to reside, are interested in knowing the cost of building material here, because, in casting up future plans, it is as essential to know how much house and harn will cost as it is to know what the land will cost. The following price list is the one adopted by the Impher dealers in this county, and will aid the inquirer in approximating the cost of

billiang.		
Rough merchantable Oregon plac	\$30	ŧ
itongia restwomi	30	•
Oregon pine flooring, first quality	49	
Origon plue flooring, second quality	:15	
Redwood, tungged and grooved	42	ľ
Surfaced	42	5
Rustic	42	ľ
Shiing, first quality	35	•
Silling, serond quality	50	(
Double surfaced	15	6
Double surfaced, tongued and grooved and beasted	45	C
Single surfaced, tongued and grooved and beaded		
ete	45	13
Latti, per M. 1 fest	- 6	(
Lall, per M, 6 feet	В	1
Latir, per M. 8 test	12	1
Sittingies per M. four bundles to the M	4	G
Posts, spilt, ench		2
Surface stepping	10	2
Double surface stepping	42	5
Rough pointed ptchets	30	€
Surfaced phykets	40	0
Rough clear Oregon pine or redwood	40	I)
Penetng, 1x3, 1x4,	33	S
Fencing, 1xii,	30	0
Figoring, 1x4, and 1% 4 tuches wide and upward.	42	G
Batiens, & inch, rough	30	0
Surfured, & meij	411	21
Domble surfaced to the control of th	42	5
Fence posts, sawed, 7 test and under, per 1,000		
feet	30	0
Refuse lumber	15	C
Sinkes, per M	15	6
Buweil Strakes	17	S
Saula Cruz lime, per barrel.	3	
Coiton Itore	2	
Plaster, per barrel	17	
Portland coment	- 0	ñ
The Company to the control of	- 2	

Bricks cost about eight dollars per thousand, and it is estimated that, when lant in wall, the cost is \$14 per thousand. Phistering, including bothing and all material, costs from 20 to 25 cents per square yard. Painting (Iwo coats) coats about 20 cents per square yard. The cost of a house of four rooms, each about twelve by fourteen feet, is from \$800 to \$1,200, according to finish. And it may be remarked that the thick-walled, expensive houses to which Eastern people are accustomed, are not only nunecessary, but undestrable in this climate. Press and Horticulturist.

#### A FRUIT REGION.

The Eureka Standard is of the opinion that full one-half the width of Humbolilt county. lying next to the eastern line, is unsurpassed for the quality and perfection of fruit which it yields; and particularly is this the case with the territory which lies on the water-shed of the Trinity and Klamath rivers; and adds that, for perfection in growth and quality of flavor, this latter section is unequaled anywhere, it makes no difference whether you go to the southern end of the State, or refer to the storied orchards of the Orient. There is that combination of climate and soil on the Klamuth and adjoining county which has made it the home of the apple, the pear, the cherry, and other fruits that require like conditions. There are great tracts of Government land upon which the plats have been recently filed, which can be had of Uncle Sam merely for the taking, at \$1.25 per acre. On the Klamath the objection cannot be raised that it is entirely beyond reach of market. It is, at present, for fresh fruits, but we have the whole world for a murket for dried fruits, and the Klamath affords a natural, and cheap, and easy avenue through which to reach it. The cost of placing such freight on the steamer wharf at Crescent City would be comparatively small, and the ourrent of the river is available at all times for flat boats and cances. Those who take time by the forelock, and plant orchards on the Klamath and Trinity, will have an independent income, measurably free from insects that infest the warmer counties. Here we have sufficient snow and cold weather to destroy very generally the larvæ that a more southern temperature nurtures into life.

#### SMALL OR FRUIT FARMING.

This kind of farming in the font-hills of Califor nia promises, at me distant day, to add much to the wealth and resources of the State. The Dutch wenth and resources of the Scale, the Indica Plat Times, in this connection, says: Whor-water for irrigating purposes is obtainable, the foot-hill lands are better adapted to the orchard, vineyard, and berry than the valley lands. This has been practicably doministrated. At this altihade in this section is grown the linest apples in the State. Mountain fruit always commands a higher price in the market than the valley produc-tion. The grape does not do so well this high, but from Culfax them it thrives with haxuringer. Many acres of now land at and near Colfax are be ing set to grapes this spring. In fact, there seems to be an awakening to the interest of fruit-ruising in the upper foot-fulls never before experienced.



BROAD GAUGE

#### Summer Arrangement.

Commencing Wednesday, April 18, 1883, And untit further notice. Passenger Trains will leave from, and arrive at San Francisco Passenger Depot (Townsend St., between 3d and 4th streets) as follows:

S.P.	DESTINATION.	a. P.
8:30 A. M. 1 9:30 A. M. 10:40 A. M. * 3:30 P. M. 4:25 P. M. * 5:15 P. M. 0:30 P. M.	an Muteo, Redwood,	630 A. R * 810 A. M 9.03 A. M * 10.02 A. M * 13.36 P. M † 4.50 P. M 6.00 P. M † 7.50 P. M † 8.15 P. M
8:30 A. M. 10:40 A. M. * 3:30 P. M 4:25 P. M.	Sunts Cincu, San Jose and, Principal Way Stations	9:03 A. M *10:02 A. M * 3:36 P. M 6:00 P. M † 8:15 P. M
10:10 A. M. * 3:30 P. M.	Gilroy, Pajuro, Custroville,   Salimus and Monterey	6:00 P. M
10:40 A M   * 3:30 1° M	Hollister and Tres Pinos.	0:00 P. M
10:40 A M * 3:30 F. M	Watson viiir, Camp Goodail,   Aptos, New Brighton,   Soquei (Camp Capitoia) and   South Cruz	*10:02 A. M
10:40 A 31.4	Scientini and Way Stations	6:00 P. M
t 7:30 A. M	Monterey and Santa Crnz. ] (Suming Eventsion)	† 8:43 P. M
Saturdnys or	excepted. †Sundays only. 1T	bratre Irain

Stage nonnections are made with the 10,10 a, m, Train, except Precapero Stages via San Mairo, and Padric Comoriess S minos Stage via Santa Clera, which connect with 830 a, m, Train.

Conorses S. Ginos Stage via Santa Clera, which concet with \$290 a.m. Train.

SPECIAL BOUND-TRIP TICKETS — At Reduced Rates—to Pescadero, Monierry, Aptos, Soqued and Santa Cruz: also, to Gitray, Paraiset and Paso Robles Springs, EXCURSION TICKETS —Soid Santriays and on Similary mornings—good to return on Moniary—to Santa Clara of San Jove, \$2.50; to Gitray, \$4 00; to Monterey or Sainta Cruz: so 00; also to principal points between San Trancisco and San Jove, \$2.50; to Gitray, \$4 00; to Monterey or Sainta Cruz, \$5 00; also to principal points between San Trancisco and San Jove, \$2.50; to Gitray, \$4 00; to Monterey or Sainta Cruz, and return, \$2 00.

Ticket Offices,—Passenger Depot, Townsend atrect, and No. 2 Niew Montgonery street, Palace Hotel.

A O. BASSETT. It R. JUDAH, Superimendent.

BY SOUTHERN DIVISIONS, TO For points on Southern Divisions and the East, see D. P. R. R. TIME SCHEDULE.

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COF CIC Saturday, May 5th	а
ARABICTimrsday June 28th	
HCEANICThesday, July 10th	
COPTICSaturday, July 21st	
ARABII:	
OCEANIC	
COPTIC Titursday, October 11th	ı

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Children numer Twelve years of age, Half Far. Uniter Five years of age, Free.

100 pounds of Bugginge per full Passenger free. 50 pounds of Bugginge per half Pas-senger, free.

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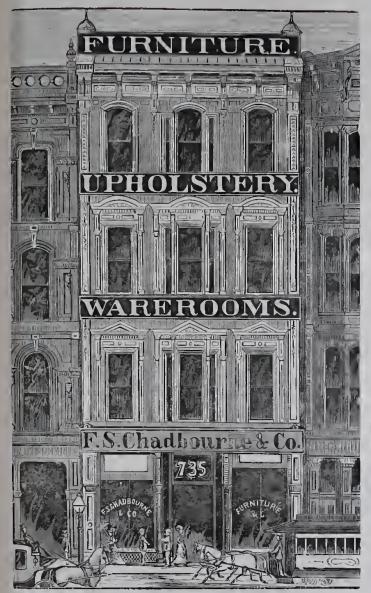
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Where passengers, calling in person, can secure choice of routies and sieupling-car accommodations. N. TOWNE, T. H. GOODMAN, Gon. Superintendent, Gon. Pass. & Ticket Af. A. N. TOWNE.

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CORNER FIRST AND YAMHILL STREETS, PORTLAND, OREGON that region.

#### THE GARCIA MINING DISTRICT.

The Cloverdale papers make the following mention of a new mining district in its section. The Reveille says:

Mr. John Ornbaum brought to town one day this week a small bag of ore from the nowly-discovered Yorkville mine to have it assayed. There being no appliances in town the uro was sent to San Francisco. Charley Conk went out to the mine at the beginning of the week, and has returned. He thinks, from a rough examination of the ore, that the prospects are good for a fine grade of ore. The quality of rock is such that it could be easily worked. The ledge van be traced for three miles on the surface, and a good breadth is sustained. The nature of the country is favorable, boing covered with breavy mineral deposits and "ledgy." We would like to see a good paying gold mine struck in that neighborhood.

The Sentinel also says: Mr. G. A. Carsten, may engaged in mining near Yorkville, was in Clover-dalo this week, and from him we learn that the mining excitement around Yorkville is based slaunch foundation. Mr. Carsten has had fifteen years' practical experience in the mines of this coast, and has made silver mining a scientific study, and his opinion is entitled to much weight. bas carefully surveyed the country around York-ville, and arrived at the conclusion that it is destimed to become the most productive mineral re-gion in California. The ore bid commences at Yorkville and crops out continuously to the head-waters of the Garcia river. The breadth of the ore has not yet been ascertained. Mr. Carsten thinks, basing his opinion on his surveys and tests, that these mines will prove almost inexhaustible. The ore is rich in silver, gidd and copper, the former greatly predominating, but as no assay of surface ore has yet been made, he can but approximate the proportions, and from specimens taken trum his claim he thinks it will run sixteen onneed silver to the ton, the gold and copper existing in limited percentage.

Many who have taken claims would not to-day sell the same for \$1,000, even though no positive developments have been made.

The bed was evidently thrown up by releanic action, for in the chimney now theing sunk by Mr. Carsten, after passing through the surface lebesains be entered a strata of using over 30 feet thick. He computes that he will strike the bed on his claim 75 feet below the surface. He has yet about 30 feet to sink, and when this is finished he expects rich returns. For the benefit of risders not arquainted with the gengraphy of this country, we will say that Yorkville is located in Mendocino county, 29 miles from Cloverdale.

#### A NEW ENTERPRISE IN FRESNO,

The following, from the Fresno Expusitor, will interest many of our agricultural readers:

Mr. Kearney has just succeeded in obtaining a tract of land lying west and southwest of Fresno, It is as level as a fluor, and every acre of it could be planted and irrigated without any expense of level-The soil is a reddish loum, containing rhough sand to render cultivation easy, and to prevent baking after irrigation. This budy of land Mr. Kearney expects to put in market after a few years, but before that time he intends improving it in such a manner as to make it one of the most attractive spots in the State. A company is now heing organized in New York, with a capital of \$1,000,000, for the purpose of putting out, at once, a 2,000-acre vineyard in the center of the tract. The land will be irrigated from a new branch of the Fresno canal. There will be avenues 80 feet wide extending through the tract, at a distance of a half a mile apart. These will be laid out at once, and lined on either side, with a triple row The center will be devoted to a roadway 50 feet wide. The outer row of trees will be some sort of an evergreen tree; the second tree, which will ten feet from the tirst, will be some quick growing tree, like the poplar, while the inner rows will be nut-bearing trees of various kimls. When the evergreens and nut trees attain a sufficient size, the poplars will be out nut, and two shally lanes, each tiventy feet wide, will be found on either of the roadway. By this time the vineyard will be in full bearing, and the winery in operation. Another thing that will help the entergrise is the fact that the Upper San Joaquin canal, now in course of construction, will be completed this sum-mer, and will open up for settlement a large tract of country lying to the west of Mr. Kenrney's lands.

#### TIMBER LAND PURCHASED

The Redding Independent states that it is currently reported that a company of Truckee capitalists have purchased 3,000 acres of sugar pine land on Pitt river, and also a unit site at the confluence of that stream with the Sacramento river. During the summer they will creet a large sawaril, and invest a large sam of money in a lumber enterprise. It is known to be a fact that a company of moneyed men three purchased a large belt of tunber land in that region.

THE REDDINGTON RUICKSHIVER

The St. Helena Star unkes the following mention of this notable mine;

It is situated in the northern end of Nupu county, near the boundary line of it and larke, and has been worked for over twenty yours. The main shaft is now 650 feet deep. The character of the ore is sulphurate of iron, and is found in quartz seams, between samistone as a hanging rock and scrientine as a foot wall. The ledge runs murth and southeast, and nuderlies to the north and east. Heavy bodies of clay are found in front of the ledge, which pitches at an nugle of about 45 degrees. A new body of ore has been discorred on the 210 level. The ore is good, and the indications are that there is a large body of it. muchinery over the mue is perfect. It consists of a complete set of pumping and horsting works, worked by a reversible engine of 35-horse power, with the customary genting and a flat wire cable, the breaking stram of which is about 35 tons. The pump is eight raches in diameter, beavy and substantial, and has four lifts. The hoisting engine has all the modern improvements, the machinery is conveniently arranged, and ample buildings erreted over them. The mine is worked through various tunnels. The shuft has three compartments. The middle compartment is filted with a cage. Only 65 men are now emplayed by the company. The product is averaging 60 flasks a week. The ore goes about one per cent, or less,

#### PRODUCT OF ONE ACRE.

The following, taken from the Yolo Mail, is a fair illustration of the wonderful productiveness of much of California's soil:

Mr. Chunton, living southwest of town about two noises, has a single acre devoted to grapes. Thro years ago, while visiting his place, he showed us this acre of vines. They hardly looked like vines but simply piles of grapes, so thickly here the clusters chinging to every part of the vine. Having their expecting to turn his hogs into the grape patch, as he called it, but upon a singrestion that they might be more valuable for vine stain to use fur fattening his hogs, he sold then to Mr. Chirk, Upon neighing the truth he intormed me there were ten tons from the acre. The next year he informed he he took twelve tons from the same spot. Estimating the crop at the low price of \$15 per noi. his first Year's crop would give him \$50, and his second crop \$180.

A person having ten arres would realize a tuir income from the pincerils of his small farm. We think the possibilities of our county are only just leginning to be understood. Instead of rationg a single article and taking the chunces of a failure one year in three, we are now commencing to learn that farms that are measured by the thousand acres, and devoted to wheat, are not as whitable as the same land in small tracts and cuttivated to hetter advantage. Some of our large farmers are land poor. If land is morth \$50 per aire to grow wheat, what would it be mirth if devined to grapes? One thousand acres it dirided into tirenty-acre lots could have fifty homes upon it, giving us a population to trade at our toivins, to increase our schools and lessen the distance our oblidicular are compelled to go for educational advantages, and last but not least, double the inniber of subscribers for nir paper.

#### PREPARING TO DRRIGATE.

A traveling correspondent of the Marysville Appeal writes to his paper that the people of Colinsa county occupying lands west of the Sacramento river are earnestly consilering the question of irrigation. It is proposed to convey the waters of Stony creek through the dry section of the county. Yolo furthers have profited greatly by a few irrigation conals, and Colins farmers there find a practical illustration of what water would do for them. Colinsa is a rich county, but she would increase her wealth immensely by appropriating and using the waters of Stony Creek.

#### PLUMED PAMPAS GRASS.

The Sunta Ana Shandard states that the calture of this grass has become an important rulastry in the sonthern counties. The demands for the plames come principally from the Kast and Europe. Last year one gentlemau realized from the sale of plames grown upon a few acres of band the same of \$1,000. One Los Angeles firm is promised to contract for all that can be produced. These plames are grown in this locality inthe but little attention, and those who have wrent ground any derive profit by planting it with pampas grass.

#### MINES AND MINING IN 1882.

The following facts and figures are taken from an elaborate article in a late issue of the Mining and Schulific Perss of this city:

Since the year 1877, when the great Comstock homanicas were yielding their millions, we have not had so productive a year from the mines of the United States as that of 1882. The total yield last year was 892,411,835, which, compared with 1881, when it was \$84,504,117, shows a gain nearly \$8,000,000. It must be remembered also that 1881 was the best year in ten or toolyceept the memorable years 1876 and 1877, where were producing in the nineties. The main are crease last year comes from Cidorado, Idaho, Montuna, Utch and Now Mexico, and in all of these regions a great miney new mines have been oper

Until a few years 1990, California and Nevada overshadoccol all the other mining regions of the United States. Then, when the Constock honauzas were exhausted in Nersela and the Leadeille discoveries in the State of Colorado were developed, the latter took the lead, California still being second and Nevula third.

One thing should be recollected in this connec tion that is often forgotten: What muy be a big development in a new region might not be conshibred so in an old one. When whot of men are prospecting a claim and good are is struck in a non eamp, the fact is herabled abroad as one of great importance, and considerable attention is paid to it as arguing success for the camp in the future. The inference is that most of the mines near by are just as good. But when the figured up, perhaps some quiet old camp has far exceeded the yield of the new and "lundned" one,

For instance, a good many people imagine that California and Nerada are played out for mining, and that the mining industry is dead in both States. Yet, at the cuil of every year, these "played out" regions show a net product aliend of all the other States and Territories except one, They have remained second and third for some few years. The other Territories and States, much adrertised and "hoomed," with new mines, will, reduction works, towns, railroads, and all other things, make a great deal more noise about what tacy are doing than do the old settled regions. California, for instance, last year yielded \$6,000,000 more than any other State or Territory, except Nevada and Colorado. She beat Neveda \$1,000. 000, and Arizona \$7,000,000, and all the others run below her. And this in the face of a depression of grand mining interests resulting from litigation, which other regions are free from.

Very little capital is coming to this State or Nerada, but a good dea! is going elsewhere. other regions will no doubt progress rapidly, and it is hoped they will. But then people should remember that there are other places which are at work at mines, and are doing good work, too, as

A much broader region of mining ground has been prospected this year than ever before. Men have ranged over the nountains, in every direction, starting new cumps here and there and everywhere. Railroads are being extended in all directions, and the mining interests of the country are being rapidly developed.

In New Mexico, Idaho, Montana, and Arizona considerable prospecting is going on. Colorado, Nevada, California, and Utah are mee at work developing their old ones. Taken altagether, the work has been very satisfactory everywhere, More people are now interested in mining pursuits than ever before, and the people are just commencing to see that miners are not a set of stock gamblers. In fact, the operations at the Exchanges have fullen off greatly, and many stocks will probably never be dealt in to the extent they have been formerly.

It cannut be said that California specially dis tinguished herself last year, although she still maintains, as we have stated, the second place in the list of bullion-producing States. She has been second ever since the hig bonanzas of the Con-stock placed Nevada No. 1. Now Colorado has displaced Nevada, and California takes Nevada's, still maintaining the position she has held so long.

The southern part of the State is now being better prospected than ever before. 'Flor hills and mountains each summer are ranged over by searching, careful set of men, hunting for tlm slightest indication of numeral wealth. Moreover, old prospects abandaned years ago, when tools, appliances, living, and averything else was high, mac being examined by the owners, who think, with element conditions, they can be made

#### A VALUABLE INDUSTRY

The California dalry interest, it is said, possesses a capital of \$15,000,000, and produces annually a revenue to the State of \$9,000,000. This industry employs 6,000 laborera.

#### SONOMA COUNTY.

In speaking of the rapid development of this county, during the last thren years, the Pitulumu Land Journal snys:

The comarkalde interest in lamls in this sec tion is not only felt in and uround Petalmon and Vallejo townships, but all over Sonoun county. A short time ugo farming, grazing and fraits lands, which could only be sold at layer's ligures, are now, when re-offered, taken at prices schich afford purchasers, who had the nerve to buy, pery hundsome margins of profit. It is difficult for one to realize it but it is true, that we are in the very infancy of adequeement in this part of the State. In the near future, our population will double, our furning and fruit lands will be subdivided, and it follows as an ineritable sequence, praren over and over again, that by subdivision the yield is first increased, and an advance in prices will necessarily follow.

The increase in our farm hunds is in me speculatics. It is the to the gradual appreciation by the general public of the fact that there are advantages in this northwest coast section not pussessed by any other part of the State. This experience has been wrought out by arer 30 years of practical work in Somma county. During this lone period we have had evens of cereals, fruit and where, heing "hononzas" in the coast country. Not only in the production of staple crops have cee had unqualified success, but in the production

fluence, just at the time when it is must needed; THE WOOD BUSINESS OF TRUCKER hence not once in the history of this county have we had a failure of crops. This fort alone would be sufficient reason for the rapid development of Sonoms county, and when to this is added the luxmry of living in the even temperature of the coast country, why should we search for other causes of

Thurs are almost fifty five humbred voters in Sommer county who may, for one purpose, be classed as producers. The products of the county for 1882, in wheat, corn, woul, fruit, hops, butter, poultry and live stock, was near six millions dollars in money. That much wealth cens made out of the soil which did not exist at the beginning of the year. Query? when the producing population doubles, as it soon must, and the 850,000 acres, included in its far-reaching lorders, are further subslivided, what then will be the products of the county, and what the value of lamb that unalice such wealth? Just think of their possibility and you must conclude that values are as much underrated, at present, as they were ten veces ago at the prices which then provided,

#### A WHEAT-GROWING RIVAL

The American Consul-General at Calcutta re cently unade a report to the Stute Department at Wishington in which he states that India is coming into prominence as a producer of reheat, and he expresses the opinion that the time is not far distant when she will be a formblable competitor



SCENE IN YO SEMITE VALLEY.

of seed and stone fruits, and repecially in the production of crine. The superpority of Segional n is no longer disputed. It will compare facorably. and it is not too much to say that there is even non made in facored localities of this regim, rod wines that rivid the best of fareign make. year, as a knowledge of the best carieties of cines to plant, and the science of viticulture is dessimmated, this product of surpassing excellence, nonlimited, will become general, and the money rules of the wine crop will equal all other products of the caunty. The soil and climate of Sonoma county seems equal to may demand made upon it; wheat, carn, lups, fruit and grapes find a congenial home. Upon the rich valley lands the coarser ial home. Upon the rich valley lands the coarser stuples yield fifty fidd, and the lighter lands will import to the Burgundy or Chasseles grupe, the delicate languet that has made the rol and white wines from thuse rarieties famous in Europa for ten centuries. The hop yards have also, for the last two years at beast, yielded their owners a fortune in a single sensor,

The coast country is separated from the great interior valleys of the State by a range of monatains, and horders the ocean on the west. It awas its unfailing crops to the sea drift of undsturo which comes with the northwest trades adout the end of the rainy soason. To this excollent gift of the ocean is the the fact that our spring is prolonged litte into June, while in less favored lo ties the season of graceth practically ends in April, The most see drift presents an unpassible burrier to the dry east winds of the interior, and supplies the requisite moisture to vegetation within its in- | Bec.

in the European market. Herstofore the United States has had almost the entire world for a narket, but if India, with her rust territory, should prove to be a good cheat-producing country, and can pluce her grain in fereign markets at a that will enable her to compete with the United States, the situation will not be a pleasant one for American farmers to contemplate. Her present yearly supply is said to be 40,000,000 bushels, or about the average of Culifornia's ammed expect.
This, of course, is not sufficient to cause the farmers me this side of the Atlantic any serious approbension, but it is stated that India has facili depronentially into the product to an almost unlimited extent. This may or may not be quite true.

The ten leading wheat producing States of America are Illinois, Indiana, Ohia, California, Iorn, Minnesota, Michigan, Missonri, Pennsylru nia, and Wisconsin, the average yearly product of which conomits to some 320,000,000 bushels. order the come anywhere near these figures, India must increase her yield ten-fobl. She may be able to do so; and at all events the possibility of such a thing should set American furmers to thinking.

If India sloudd become a formidable compositor in the foreign wheat trade, our farmers will find it necessary to study economy in their systems of farming, which have heretaforn been loose and expensive. With more economy in farming, America may be able to place her wheat product on the Kurupeus murket cheaper them India conand thus, despite the extent of the latter's produc-tion, contrive to "hold the fort." - Sacramenta

The wood business of the Truckee Basin is to small portion of its source of wealth. As is natu. ral in every country where sawnills abound and humber is made, cord wood forms a principal ad-junct. Many large trees, 50 to 80 feet high, are cut flown from which only one good saw big, per hups twenty feet long, or even less, can be ob-tained, the remainder being ant up into firewood and not left to ratom the ground. Again, the hum herman solvets his trees, and after the first enting, n great many up left that are curthless, save for firewood. The condehapper has the advantage of the means of transportation provided by the mil The finne system, men, and fails not to use it. so universal in this section, renders the wood husi ness particularly profitable. There is no hauling to market. The flunes take it from the forest and deposit it chose to the railroad track, and thus save to the producer and consumer as well as the great expense that could attend did it have to be handed response that cound attenuant in it may be no banked in wagons. As a result, wood fool is cheap and plenty. The Central Dacific, with its large number of engines, consumes wast quantities. Car loud after car load is shipped to the valley west and the country rast, and piled in the wood. sheds for use during the year. Something of an idea of the contribution of the Trucker Basin to this demand may be gleamed by knowing that Bronco fornished, last season, 3,000 cords; Presser Creek, 5,000; Martis Creek, 6,000; Truckee, 18, 000; Donner buom, 4,000; Donner Lake side, 3,000; Champion's, 3,000; Knerland's mill, 3,000 total, 45,000 carals, all of which is purchased by the Centrid Parific Railriad Chupany. The water of 81 and 82 proved a cheap one for the railroad company. It was a mild winter, and the snow plows, which are the mouns of consuming large quantities did not have much work to do, cut in the fall and winter, for the reason that the bark holds closer to the wood, and the railroad company always tries to contract for wood cut dur ing the fall and winter months. The heaviest contractors in this section are Masses, Sisson, Crocker & t'o, and Elle Ellen, Esq. These men handle large quantities of wood, and give it especial atten-A glance at the figures shores that the inillustry is an unportant one. The supply may be said to be never-emling, and it is he your the power of man to estimate when it will be exhausted, the aid of flumes it can be brought to market at a trifling cost, and between the Summit and Verk there are thousands of cords waiting to be served up and fed to the hundreds of engines being ser e on the rails of the t'entral l'acite. - Trucket Republican.

#### SIERRA VALLEY

The Sierra Valley Leader has the following article, showing lone one of the finest mountain vidleys in the State might be benefitted by urigotion. It is situated in Sterra county:

The attention of capitalists is hereby called to some good incestments for their surplus wealth in Sierra rudley. There are nt least 100,000 acres of land in the calley susceptible of producing the finest crops of hick and grain if a little moisture could be had during a short portion of the year. Most of this bank would profile an occasional crop during favorable years, but the ancertainty of it has deterred people from culticating it.

A very little water at the right time would insure a full crup every season, as the quality of the soil cannot be excelled. There is enough water annually going to coxtr in the spring to irrigate the whole ralley twice over, if it could only be retained in reservoirs until two months later in the season. There are at least a dozen streams pouring their waters into the valley from the surrounding hills, and scarcely one which ouchero in its course, could not be dammed and a little lake formed, whose waters could be held to

In Creycroft Neck a thou could be constructed to hold in reserve enough water to irrigate at least 40,000 acres of hind. This could reclaim all of the maste band on the cest side of the caller, down as far as Bockworth. Then in Last Chance a reservoir could be hold to irrigate all of the old land from the Summit to Beckworth. Truckeo irrigating cumil could be extended so that water could be entrivil nourly to the Summit Thus on ser that by these three schemes alone the whole velby could be centered, and searcely an nere but what would profince its bushels of grain or tons of lucy.

There is not a rancher in the raller who would not give a dollar an near to lace his caste had irrigated. Here is a fortune for equitalists che are scoking a side investment for their noney. Lind eat be required under the Desert Land Ach chieh expital can scenre for a song. Thou they can conduct water upon it, making it probetive divide at into small tracts, and sell it to these in search of homes. The hand could be producted in value, and the profits to be realized from the investment reamble be provinced



J. P. II. WENTWORTH,
Editor and Proprietor.

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ISSUED MONTHLY.

is bounded on the north by San Josquin county, on the east by Calaveras and Tuolumne counties, on the south by Merced, and on the west by Santa Clara county, thus spreading across the entire width of the valley; its area embraces 924,800 acros of surface, 785,755 acros of this is sold and assessed, thus leaving 139,045 acres of Government land, the greater portion of which is stony and al-kall and unfit for cultivation. Stanislans is purely an agricultural and pasturable region, and has, in prosperous seasons, acquired the distinction of being the banner wheat-growing county of the State. | and is intended to be carried down, in the near

of cultivation, and although not so prolific, owing to the dryness of its nature, thrice the quantity of land can be cultivated with the same labor as on the tenacions adobe soil. The valley lands, which comprise the greater portion of the county, have a gentle, uniform slope, favorable to irrigation, are generally in a position to be well watered from the Stanislans and Tuolumne rivers, and on the south from Tulare lake. The San Jorquin canal, on the west side, which is principally owned by Messrs. Miller & Lux, is now irrigating some 20,000 acres,

owners have organized an irrigating enterprise, which will enable them to irrigate 128,000 acres of land, in this county, by next season. Theo again, a great portion of the geological formation of the country is such that flowing water from

Artiodan Wells

May be obtained at a depth of from 250 to 300 feet. Numerous wells have recently been successfully hored in the region along the San Juaquin river, which flows through the county in a northerly direction, dividing it into two nearly equal The river here is a fine stream, 100



# GEARY STREET CABLE-ROAD, SAN FRANCISCO.

# THE GREAT SAN JOAQUIN VALLEY,

Stanislans, Merced, Fresno, Tulure and Kern Counties.

(By the Traveling Agent of THE RESOURCES.)

By the Traveling Agent of The Resources, I to the April number of this journal we gave a description of San Josquin county, which is the key to this great valley. A glance at the map of California reveals, in the San Josquin basin, an area of writtery exceeding 10,000,000 acres of tilhable and pasture land, and many thoursand acres of timber and mineral land, capable of supporting a tenth of the present population of the United States. Immediately south of San Josquin county lies

#### STANISLAUS COUNTY.

Its western line forms the summit of the Coast Range of mountains, while its eastern border rusts on the foot-bills or base of the Storm Novadus.

The San Joaquin river, a navigable stream for six or eight months in the year, flows neross the county, some eight miles west of the estimated geo county, some eight miles west of the estimated geo-graphical center. From that stream diverge two-tributaries, the Singuishus and Tholumne, both-jeading castward to the Sierras, and are mavigable for three months in the year; they are on the cast side of the San Josquin river, which intersects the county from south to north. The Soil

Of the east side is of a sandy nature, verging to a Of the east side is of a sandy nature, verging to a loanly character as the foot-fills are approached. The soil of the west side is a rich loant of indefinite depth and, with an abundance of moisture, yields large crops of cereals. The large average yield, in favorable seasons of abundant rainfull, is an Indi. cation that when, in the future, a system of irri-gation is inaugurated, by which these lands may be plentifully watered, their productiveness will inare the most boundful returns for labor expended.
It 'The light, sandy, character of the soil makes it casy future, through the county. Immediately south of Stanislaus lies

#### MERCED COUNTY,

Which is bounded on the cast by Mariposa county, south by Fresno, west by Santa Chara and San Bento and north by Stanislans county; it reaches from the summit of the Coast Bauge, on the west, the county of the Coast Bauge, on the west, and the standard of the Coast Bauge, on the west, and the standard of the Coast and has an to the base of the Sierra, on the cast, and has an area of 1,155 395 acres. Fully three-fourths of the land in the county is susceptible of cultivation, the remainder being only suitable for grazing. Its general characteristics are not dissimilar to those of cral characteristics are not dissimilar to those of Stanishans county. In seasons of abundant rainfall excellent crops are matured, the yield of wheat, in some classes of land specially adapted to its growth, being frequently as high as 50 hushels to the acre. The general failure of crops in a season of little rainfall, points foreibly to the necessity of providing a thorough system of Irrigation, and it is gratifying to note that the lessons of the past, in this regard, are not unheeded, as the large land

yards wide and, for a mile or two on either side, the land is known as title land, which in winter, during high water, is overflowed. It is devoted principally to cattle raising, and almost the entire principally to cattle raising, and almost the entire body of swamp land, on the west side of the river, is owned by Miller & Lux, and is used for pasturage. The next river is size is the Merced, from which the county takes its name. Its average width is about 50 yards, entering the county near the northeast corner, and dows, at first, rapidly along, forming a magnificent water-nower for manualong, forming a magnificent water-power for mann-facturing; as it hears the San Jouquin, it becomes more quiet and unites with that river near the mid-

more quiet and unites with that river near the mid-die of the northern boundary of Merced county.

Along this river, throughout the county, elevated a few feet ahove high-water, are the bottoms of the Merced, composing the richest altuvial soil, and producing the threst crops of grain, cotton, corn, vegetables, etc. In places, at high-water, these bottoms are overliowed, but only immediately

along the river, and not for a sufficient time to interfore with their cultivation. Immediately south of Merced hes-

#### FRESNO COUNTY

This is the third county in area in the State, containing 5,600,000 acres of surface. Of this vast territory 4,100,000 acres may be classed as mountainous and pasture lands, and about 1,200,000 as agricultural and fruit lauds. This county lies principally between the 36th and 37th degrees of latitude, and is very nearly the central part of Califorms, extending northeasterly and southwesterly a distance of 120 miles, and its average breadth is something over 05 mites. It is hounded on the porth by Merced and Mariposa, on the Mone and Inyo, south by Tulare, and west by Sun Benito and Monderey counties. The summit of Sierras forms ita eastern boundary, the summit of the Coast Ringe its western, and the general Course of the Chowchilla river its northern, and King's river its southern boundary.

Topography.

'The central portion of the county comprises a large part of the Great Sau Josquin valley, its low-est portion contains about 300,000 acres of mursh and low lands, formed by the waters of King's river, and during high water being partly covered with the mingled waters of King's an I San Joaquin rivers. The eastern two-fifths of the county is mountainous comprising the highest portions of the Sierrs range, and the most elevated mountain region of the United States, extending from Mount Lydell, on the north, to Mount Typdall, on the uth, a distance along the range of over 100 miles. Within this region rises the Fivano, San Josquin and King's rivers, amid perpetual banks of srow and ice. Fresno contains forty living glacivrs, some of these lying under the creats of the Palisailes being some two miles in length; and, also, many of the lofuest peaks in America: Mount Goddard, Mount King, Mount Gardner and Mount Tyndall, are upwards of 14,000 feet above sea-level, while a large number of other peaks approach very nearly that height. There is no pass over the sum-mit less than 9,000 feet above sea-level. On the westerly slopes of these ranges are found the heavjest bodies of timber in the State, and in several localities groves of the

Big Trees

Or "sequein guyanten," in which some single trevs are found measuring 120 feet in circumference. Of the 5,560 square miles of mountains in Fresno county at least four fifths are in the Sierras. These may be divided into three distinct divisions or zones; the foot-hills hordering the plains and extending back from twenty to thirty miles to the distinctly outlined pine rulge or timber belt. These foot-hills commence at an elevation of 200 feet and are covered with scattered oaks, increasing gradually, as the mountains proper are neared, to 2,000 and 2 500 feet, when they suddenly rise to an elevation of from 4,000 to 5,000 feet, and are covered with a heavy growth of pine timber. The timber beli reaches back from 30 to 40 miles at an elevation of some 10,000 feet, the higher regions being covered only by dwarfed and scat-tered tamaraok. The high Sierras proper cover a belt of about 30 miles, are nearly devoid of brush or timber, and are broken into deep chasms, jagged and lofty peaks, ancient glaciera, basins and p ent fields of ice and snow. As it is the bighest, so is it the wildest and most interesting mountain region in the United States. The geological formation of the entire mountain chains are as diversified as the fauna or flora. The

#### Foot-hill

Regions are generally granite, cut across from north to sooth, or southwesterly, by occasional seams of slate and frequent narrow seams of quarts. In some sertions large masses of white, fluity quartz are found, and in these localities the bills are covered with reddish clay. There are no extensive eers, and the numerous small ones that have orked are, se a rule, confined to the foot hills.

Volley.
the territory of Fresno county, 2,092,800 scres.

a little over one-third of its total area, lies in the great San Jusquin valley. This valley, calculating from the Sacramento river south to Fort Tejon, has ength of about 250 miles and an average breadth of about 50 miles. Kyrn lake, at the extreme southern portion of the valley, has an elevation 282 feet above avadevel, and 260 miles from the month of the San Joaquin. Its waters connect, by a series of sloogles and small lakes, with the waters of Buena Vista and Tulare lakes, which latter has an elevation of 200 feet and an arva of 700 square Tulure Lake connects with the Ban Josquin miles. Fresno slough, about 60 miles north. From Tulare lake north to the Sacramento river the valley has a nearly noiform full of a little more than one foot to the mile in its lowest depression, while the slopes from the fact-hills, on either side while the slopes from the mobilities, on either side, toward the center, average about six feet to the mile. The valley portion of Presio county occuples a section about 60 miles square. His lowest depression is one-third nearer the Coast Itange then the Sierra Nevadas. King's river may be said to form its southern boundary, while the San Jusquin, as it flows from the mountains, divides the territory of the east aide of the valley nearly in

Josquia river, after it turns northward, as the dividing line.

Two Distinct Regions

Are found, distinct in rain-fall distinct in soil, distinct as to depth and character of water, and the eneral facilities for irrigation and cultivation. The territory of the east side is about twice the aren of the west. Good water is found under its whole extent, at depths varying from six to ten feet; bordering the slough, or main river, to 80 feet; nearer the foot hills, and again being found at shallow depths in all of the canyons or dry creeks immediately bordering the foot-hills. This valley appears to the casual traveler like a vast level plain, while it is by no means either level or nnbroken. Distinct ridges and depressions can be traced from the foot-hills to the center of the valwhile the land bordering the streams is generally higher than the intervening territory. illustration, the bluff bunks of the San Josipin river, at the railroad crossing at Sycamore, are over forty feet higher than the land at Fresno, ten miles southeast. The dry bods of many creeks and streams flowing only in winter can be traced for ont on the plains. Wells, dug and bured at illiferent points, bave located the beds of ancient creeks or rivers now buried beneath twenty feet of saud and soil. In a large bed of country, bordering the San Janquin river, extending back a distance of ten to eighteen miles, flowing

Arlyshin Water

Has been obtained, at depths of 150 to 200 feet, east of a given line; nearing the foot-hills flowing rater has not been obtained, though horings have been made to a depth of 500 feet. On the lower King's river flowing water is had at 150 feet. general slupe of the country is southwest, or more west, the rise being very little for several miles from the slough, and generally increasing, as the foot-hills are neared, until, at the city of Fo no, it is six feet to the mile, and, nearer the lootbills, it is ten feet or more. Before irrigation practiced, water seemed to occupy a common level ander the entire slope, it being only necessary to know the elevation to secortain the depth to water Since canals have been constructed and water dis tributed over the plains, the intire section has been filled with water, until now, in the vicinity of the various culoures, the water level is found at from two to ten feet from the surface. It is onite evident that the process of change wrought by the present system of irrigation will eventually extend to the outire region of almost desert dryness and barreness to out of moisture and vegeta

What we have sald of Stanislaus and Merced, can also be said of this county, as it has almost every variety of soil, and a dozen varieties may be found, often, within an area of two miles square As a rule, the nearer the hills the harder the though there are some exceptions. Land that is known as bog-wallow, lies in waves like the waves of the ocean, with an elevation and depression of several feet, soil about 20 feet apart, lamls are generally solid and often gravelly, and hog-wallows are most numerous near the North of the San Josquin river the hills and hor. der lands are of granite formation, the hog-wallows extend as far out upon the plains as the rail. in some places, but between the railroad and the San Joaquin river are long stretches of level, solid and rich land; in some places it is exceedingly rich, the soil being what is known as land, and especially adapted to irrigation. Along the foot-bills, south from the San Joaquin are several miles of red clay land, mixed with white quartz, as much like the Malaga grape lands of Spain as could be. Strips of this land extend as far down upon the plains as Fresno, The great bulk of the plain land of the entire eastern slope, however, is a soft, sandy loan, mixed with clay, sand, decayed animal and vygetable matter, iron and other mineral salts. Generally speaking, the Sen Joaquin valley lands are free from alkuli. There are strips of land several miles in extent, hordering the Fresno slough, in which the alkali so alundant as to render the land almost value Experience has demonstrated that, under proper cultivation, and in ordinary seasons, the reasonably solid tands, throughout the county, will When water has been yield fair crops of grain. When water has been applied the results have been murvelyus in the production of grain, grass and fruit. The adapta-bility of the lands for fruit and agricultural purthe changes that occur in their characteri tics, by the apolication of water to the various soils, show gratifying results in the greatly enlarged number and importance of the different pro-

The country lying west of the San Joaquin river is unlike that ou the east, while much of the land is black and rich; but the small amount of reinfall and apparent impossibility of obtaining water, even for drinking purposes, makes this region practi-cally a desert. A large canni has been constructed, which has brought several thuusand acres unde Other than this, the valley proper, lying between the low hands of the slough nd the Coast Range foot-hills, is unowned and meoccupied, save by slicepowners, who take advantage Taking Fresno slough and the main San of the free range at certain seasons of the year,

#### TOLARE COUNTY

Lies south of Fresno. The topographient features of the county are marked and distinctive, being made up of monutsin, lake, valley, swamp and overflow lauds. About 2.000,000 acres are mounthin; the highest peaks of the great Sierra range fringe the castern burder: Muunt Whitney, 15,055 feet high; Mount Williamson, nearly the same height; Mount Tyndall, 11,386; Mount Kaweah Mount Williamson, nearly the same 14,000; and others, exercing 50 in all, of over 13, 000 feet above sen level are, grand sentincle of the Sierras, towering above all other lands in the United States. The seenery arming these mount rain peaks is of inexpressible grandeur; grante walls, like Cyclopean mosoury, rise, with perpendienlar face, many thousand feet above the dark canyons they enclose, and serrated ridges of needlepointed rocks run in confused irregularity from peak to peak. Bright meadows are in the deep valleys, ooce filled with ice in the glacial period, and the gigantic trevs. of 115 to 120 feet in circum ference, and near 300 feet high, are found un ionntain sides, at an elevation of 5 000 to 6,000 feet above the sea,

About 1,000,000 acres of the county is broken land, with small, elevated valleys, susceptible of settlement, where the herdsmen keep their flocks of sleep and cattle in summer. About 1,000,000 of the highest mountain section are untirely valueless for settlement, as they are one perpetual sheet of snow, ice and rocks

Tutura Lake

Is the largest body of fresh water on the Pacific Coast. It covers an area of about 230 000 acres. Around the margin of the lake, formerly covered by water, is now thy land, which is being enlitivated; rge portions of it will become the best land in the valley, as the water of the lake is receding year by The greatest depth is only about 69 feet The lake abounds in fish and millions of aquatic It has an overflow outlet into the San quin river, and seems, by nature, to have been placed as a great reservoir for the storage of to irrigate the arid west side of this great river.

#### KERN COUNTY.

Last of the great chain of counties of the San Juaquin valley is that of Kern, which is bounded on the north by Tulare and Inyo, vast by San Bernurdino, south by Los Angeles, and west by San Luis Obispu. It derives its name from the great Kern river itself, being named in hunor of Lieutenant Kern, who ac empanied General Fremont on his early exploring expedition to the Pacific Here the valley comes to an abrupt end, Const. being shut off by a high surrounding chain of mountains, forming the main cham of the Sierra Nevada and the Coast Range. The valley portion of the county, although covering nearly 1,000,000 acres, is lint a small portion of the county, as the entire area is 5,137.920 acres. The

Topography
Of the county is exceedingly diversified. The chantle jumble of barren mountains, where the two great ranges unite together with the vast sandy deserts that encompass them on either side, form a confusion of the most forhidding elements of nsture. The redeening feature of Keru county is the noble river, that heads in the mountain fastnesses of Tulare county, and breaks through the titanic hills, down a deep, precipitous gorge, doscending many thousand feet in a fow miles, and rolling out upon the plans. As it reaches the valley it spreads into devious channels, making a which is called Kern Island, priciona is the stream that a slight impediment made it fly off on a tangent, a few years ago, cutting a new chanuel, whose mouth was 35 miles that of its original bed. Kern and Buena Vista lakes neceive the water of the river, and, in lurn, discharge it into l'ulare lake. Some of the most productive farms in all California have been on Kern Island, within the past few years, where naught but grass and sage brush formerly This has been accomplished by means of a liberal expenditure of capital in the construction of irrigating canals, which now ramify all parts of the Without irrigation very little would be produced in Kern county. An ample supply of water is furnished by Kern river, which has a drainage area of 2,382 square intles. The annual rain-fall of the valley rarely exceeds three to four meters, which is sufficient to mature any kind of erops. The capital expended since 1874 amounts to more than \$1,000 000. There are a number of large ranches under cultivation and irrigation, the largest being those at Messrs, Hagem & Carr. present development of the agricultural interests of Kern county is so largely due to the enterprise of these Sun Francisco capitalists, that, without them, county would have been in a comparatively wild condition.

Climate of the San Josephin Valley

The following paper on the climate of this region was prepared by Dr. G. A. Shurtled', method sn perindendent of the State Insane Asylum in this city of Stockton, an eminent authority:

The climate of the different sections of our cor presents, like that of Moxion, some striking and most agreeable virieties. Heat and cold, Irrespec-tive of hitimde, oceans in certain places regalarly from observable physical causes which are local;

and humid winds, or arid calms, or grateful breezes characterize the climate of localities willin comparatively short distances from each other-the menifest result of the configuration of the earth's Thus in the great bastn of the San Joasurface. quin, the process of heating and cooling, of atmospheric rest and motion is carried on during summer, with almost the regularity of the ebb and Near the coast, and stretch flow of the ocean title. ing along for hundreds of miles parallel with it. this immense valley is effectually cut off by the must range of mountains from the air of the sea during the latter part of the night and fore part of the day, while the atmospheric equipolse is unly turbed by local rarefaction. But as day advances the sun warms and heats and rarethes the repusing atmosphere of the valley, the equilibrium is at length temporarily destroyed, and soon after midday, the heavy cool sea wind, put in motion and hurried on to resture nature's disturbed balance, omes sweeping up the outlet of the valley, and through the passes of the coast monnians with enmfortable force and frigidity. With no obstacles to impede or deviate its course, it pursues the broad line of the great river of the sunth, passing over our city and the lower part of the valley in a northern courae, freah and cool, granefully temperell and moderated as It commingles in a first meeting with the soft, warm air of the interior, and spreads out over the wide expanse of green tules in which the valley terminates. In this way by a law of nature, the whole basin is filled daity, during the summer, with the juvigorating atmosphere of the ocean, sided somewhat in the night by the te-With a temperature thus equalized and an atmosphere thus daily refreshed, the valley of the San Jonquin possesses a climate emmently condueive to both the comfort and the health of mar The climate of California has been not toappropit ately compared to that of Italy in the equality agreeableness of its temperature. No equally extensive section of the state possesses in s a degree those desirable climatic obstacteristics which justify this favorable comparison as does the valley of the Sao Josquin. Low down the valley about midway between the two mountain ranges, the temperature is almost vacally that of Naples, a following record of thermumetrical observation

	Naples.	Stocklon.
Japuary .	46	49
February	47	51
March	 51	58
April		
May		64
Julie	 70	74
July		76
August		74
September	 69	69
Ociober	61	67
November	53	56
D cember	 49	48

The foregoing table represents the mean temper ature of each month of the year in Nantes and in Stockton, the temperature of the latter pla taken from the record kept by Dr. R. E. Reid, and embrseing a period of four years.

Along the cosst side of the lower part of the valey the climate is much cooler in summer than it is in Stockton, the high winds prevailing in the after-noon as in Sau Francisco, while far to the south and along the foot-hills of the Sierras, it is much bolive during the same season.

In regard to the healthfulness of the valley, to say nothing of the sanitary effect of the rapid de ention and curring of most of the spontaneous vegetable productions when the dry season commenc & this daily atmospheric current is constantly sweep ing away their incipiency, the miasmatic exhain tions and pestilent fermentations which might otherwise incubate and brood undisturbed over the rich bottom lands near the mouths of the tributary streams. In this quaroidable purification, carried on and forever to continue in obedience to the pres ervative and unulterable laws of the promise of the future healthfulness of our inereasing population. The experience of the past, too, may well inspire confidence. Carefully kep seruntifically arranged neerological tables extending back more than ten years, show in this city a rate of mortaitity which compares favorably with the most healthy places on the globe; the ratio of mortality exclusive of deaths from external causes or violence, being annually only one death to 65 of the population; while in Norway the ratie of mortality is one in 56; Swedon, one in 19; England, one in 44; France, one in 44; Prasaia, one in 36; Philadelphia, one in 16; Balumore, one in 11; New York, one in 38; United Shitts pas shown by th surrented estimates of the eighth census), onem 45 5. Epidemies and viruleut infections have been rare and dishadiurd to spread, and the more genul and mild temperature of this sheltered region tends to stay the development of pulmonary affections and diseases of the respiratory system, while the chilling fogs and trarsh winds of the coast are limble to provoke their dreaded athreks.

Aloug the estmeries of the San Josepha river, and at the months of its confluents, malarla is 80 times ongendored, and intermittents, in a mild form, prevail, to some extent, late in the summer notwithstanding the unfading sanilary influences of our post-moraline winds. But when we comsider that these dark borders and low bottoms, of

arcount of their maisture and supposed richness, were the drst, and in some sections, much recently, the only part of the valley which were settled, and that even near they are selflom objected in by the experienced on account of their unhealthfulnes, and when we further contemplate that these are last the narrow water lines and terminal barders of valley whose length is estimated by humbreds of miss, and whose breadth is measured by the me ridian lines of longitude; whose healthful and productive acres extend far away out of sight of the regions of a inter thoods or antinuoud miasm, we may confidently feel lossured of a population in this rich and truly magnificent valley, not only healthful in the usual freedom from budtly ills, but healthful is every essential interest which tends to consitute a wealthy, prosperous and imagey people,

#### Ben itroneta.

This great valley is well supplied with railroads, The C. P. R. R. runs one of its branches from San Francisco to Sacramento via Stockton, miles west of Slockton is its junction with the Southern Pacific, which traverses the entire length of the valley, with branches from Gosheu to Visslin, the county seal of Tulare; from the former place is the Hanford division, running in a northwestern direction, and will soon intersectivilb the northern division of the same road, which is now completed

millions of actual settlers and tillers of the soif,

Puputation.
The present population of these six countries, endersing the cuttre San Josephin calley, is about as

	t t 000	No. of Acres 928,060 924 800 1.155,336 6,600,000 4.100,000 5,137,020
Totals.	81,500	18.816.056

Thus it will be see that here is a lerritory of nearly 19,000 000 acres of area, of which fully 10, 000,000 acres are valley and susceptible of irrigation and oullivation, and fully 2,000,000 more are low rolling funthill lands, and, at present, sparsely sotlled, which might also be said for our whole

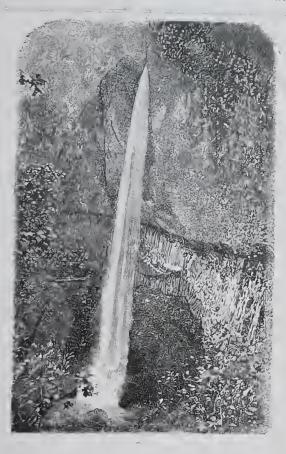
The greatest want of California since the influx of pioneer days has been that of immigration—set-tlers who would make it their home. Earnest but spasmodic efforts have been made in the past to imluce a part of the moving stream of humanity that flows from Enrope to America, and from on state of the Union to another, to make California its objective point, but the result has been unsatisfactory. The roasons why immigrants proferred

west, and from New Orleans the railroad controls a connecting line of steamers. The European unmi-grant can luke passage direct to New Orleans, and the railroad company can from that point have contrid of him, and will not have an intermediate line to raise the price of fransportation so high us to amount to a prohibition of immigration to Cali forms. With these advantages in its jussession, it has begun a movement to altract to this State desirable immigrants, and has established immigra-tion burrous at Chicago, Lombu, Bordeany, Berlin and Gothenburg. 1. N. Hoag, well lunden in this State, and familiar with the agriculture and enjubilities of California, is the Central Pacific immi-gration agent at Chicago. At the other points, men similarly woll fitted for the linst are statused. Each is paid by the railroad company, and the moformation given is not a tax upon the immigrant. These agents are under contract to make Iruthiful reports concerning California and the lands inquired est, and on no occasion to set forth exceptional cases of production, climate or capabilities for the purpose of inducing immigration. The facts only may be given, and facts which are not exceptional, but the rule. Thus, with regard to grapes, they are not to instance cases where the yield is tiventy or thirty tons to the acre, but are to set forth simply that in all cases a yield of five or six lone can be

one with another. The fruit raisers have told how much it will cost to identian orchard, what it will yield the first, second and third years, how much it will cost to minimaln it, etc. Vitienturists and stock raisers have also been sending in valuable and reliable information, all of which will be spread unroug the people of the Rast and Europo. Persons linving any information about the resources of their localities throughout the State can aid this universent if they will place it at the disposal of the company's agents. This information is not asked for those who have made up their intude to immigrate, such have already, almost without ex-ception, a definite destination, but for intending immigrants who are inquiring about and investiga-ting the prospects of the country they intend mak-ing their future home. All facts regarding land that can be obtained, its character, etc., will be given to the agents of the railroad company. Per-ple who have land for sale have only to write a true discription of it and send it to the agents to have the information placed before a large number of the most desirable class of people. The Chicago agency will maintain an exhibition of California products, each product in its season being forwarded by the railrual company, and persons or associations wishing to make an exhibit of the produc-tions of their lambs, can have it forwarded by ex-



MULTNOMA FALLS, COLUMBIA RIVER.



LA TOURELLE FALLS, COLUMBIA RIVER.

south from San Francisco nice San Jose, Salinas City to Soledad. 'There is, also, the San Joaquin and Sierra parrow-gnage) road, which is now complete from Brock's Landing via Lodi to Wallace, which lies in the loothills of Calaveras county This road is intended to be built up to the Big Trees and an immense timber bell on the western depe of the Sierra mountains

Water Facilities.
A glance at the map of California reveals the fact that this great valley is susceptible of being trigated, as there are numerous streams all along the western ships of the Bierras, from one end of the valley to the other. The principal rivers, be-ginning at San Juaquin county and going southwanl, are: the Makelamne, Stanislam, Tuolninno, Mercel, Fresnii, San Jaaqidn, King's, Kern; there are a number of smaller ones tending up in the Sierras, amid perpetual snows. These streams all break through rocky gorges, affording the best of fællities for husbanding the water in reservoirs for future use, so that every acro of this wast country can be irrigated, when race properly settled and

owned and controlled by actual settlers.

Large annunts of expital are now invested, built of the proprietors of the S. P. R. R. and by private companies, in bringing the waters of the Merced, Supparies, in bringing the waters of the same share, San Jozquin and King's rivers into some of the valley lands. Corporations are being organized in all the counties south of Stanishous, and it will not be long before this valley, which new has less than \$2,000 inhabitants, will have

other sections of the United States are obvious. The Pacific Slope is a long way from the place intere the intending settlers start; it takes time and considerable money to reach here. Reports, nttered by local journals and speakers, and senttered broadcast by interested parties, that all the availahie land in California was controlled by monopolies or held by speemlators; that freight charges out up profits of producers; that Chinese competition was reducing the laborer to a condition of servitude -all these and other misrepresentations bave diverted from the Gottlen State thousands of immigrants from the East and Europe. There has latebeen inaugurated, however, a movement that, it is hoped, will counteract these influences and induce immigration to this Stale—not the impover-ished classes that pour into the Atlantic scaports, but the better classes who are seeking places in which to make permanent homes. It is this latter class that has increased the jupilitation and prosper-ity of Kansas, Nelraska, Minnesota, that is now journing by tens of thousands into Dakota and following the progress of the Northern Pasific rati-This new work has been started by the tral Pacific management. It is the result of lung investigation, and has been mangeraled only after It has been practically demonstrated that the only sought for can be accomplished. Pacific feets assured it can control the intulgration to this State through 11s southern route to New Orleans. Cheap transportation down the Missistippl river can be obtained from the states of the North-

relied upon. Exceptional instances of productiveness are held to be, in the long run, injurious to the interests of the State, and wilt not be set forward as inducements for immigration. The rail-road company has taken nonsual pains to dissentnate facts about California lands - not only its own possessions, but the holdings of individuals, agents of the company will not negotiate the sale of any of these lands, but will give inquirers any information concerning them they have in their passession. Several large laudholders in the State bave already practically indersed the action of the Central Pacific, and have listed large blocks of their land in the different agencies. The railroad's land burenn is engaged to revising the prises of the company's lands. The company, however, assures parties having land for sale that lies near its own that it will not give their own property preference over other lands offered for sais. Extreme care has been taken—and the same caution will continue to be exercised-to obtain the most reliable information about the products of California. The opinions of gentlemen of stunding, who are noted for their experience and success in the various de parlments of agriculture, were suifcited upon the capabilities of the soil in their lacalities, and they were also solicited to give the fullest information concerning the ylets of crops, the cost of raising, cost of banding, pratta and all kinds of similar information that an intending huntgrant would wish lo know. Thus the great wheat farmers have given reliable figures which bave been compared

press to Chicago b p. properly boxing it, and sending il in care of the company. The Chicago agency will also furnish information about California to any one applying. At the European agence salt the information received from here will be translated into the language of the country where the agents are stationed, and spread among the people.

Particular attention is now being directed to in-ducing Bottemians to immigrate to California. They are a rural people, tractable, honest and in-dustrious and skitled in vine-dressing and winemaking. They are among the test of Austrian subjects. Many of them there soltled in Iowa, Wisconsin. Texas and other states, and are considered among the very lest class of settlerg, places where they are located they have taken up lamit that others rejected, and by their perseverence and knowledge they have made it beautiful and productive. Besides their knowledge of viticul-ture, the Bohemians are noted for their skill as murket gardeners.

Special efforts will be made at the Chicago agency

to procure farm hidp, which will be so much needed in the future, and the pressing needs for the coming hervest are already beginning to be felt. The demand for agricultural laborers for the ensuing four or flye months will be unpreredented, and the number now in the State will supply but a fraction of the farmers' wante,

Laud,

All over the valley, is constantly enhancing in value, overy year. There is a large acreage planted

to frints and vines, and domescals of seres that, a few years ago, were considered almost valueless, which now have water ditches; are being ing sold and cented to farmers. Thursands of acres are for sale, and can be hought at quite reasmorble prices, ranging from \$10 to \$100, owing to improvements and heation

people unacquainted with this great valley, so would say, this is not a wild, uncultivated posts lort, on the contrary, it has headiful cities and lowes souttered all along the lines of the rathroads, which we will name in their outer, beginning at stackton,

A city of about 15,000 inhabitants, located on several lines of railroads, and also at the head of tide water, where steamers of 600 jons capacity make duly trips to San Francisco, a distance of 117 milis, The second town of any note, going south, is

Modesto,
The county seat of Stanislaus county, legal don
the line of the S. P. R. R., 103 miles southeast from San Francisco. It is slinated in a healthy country, and now has a population of about 2,500 people. Modeste is a new place, the town being laid but in the full of 1870. Here is one of the finest agricultural valley countries in the State Large crops of grain are produced annually, and recently the people are turning their attention to the raising of fruits of all kinds, and it is found that this will become one of the lines fruit sections in the State. Forty-eight miles further south,

in the State. Forty-eight miles further south; through a productive valley country, brings us to Merceil City.

The county scal of Merceil country. This brace has a population of 1,800. The find us the vicinity is principally owned by lay or land owners, who are bringing the waters from various streams upon it. for the purpose of irrigation. At present, principal crops raised are whent and harley. A few miles to the west lies the noted

Bulmeh Phydalinn.

The plant from which the "Buhach" pow-er is produced is grown principally in Dalmatis, Herzegovania and Monlenegro provinces in sonthern Anstria. An infusion from the stems and leaves destroys all classes of insects on fruit trees; it also makes a wash for curing scab on abeep From the blossoms is manufactured the powder called "Bukach." which, for destroying fleas, flies, musquitoes, moths, and other meets, it is said to The great value of this juscet destroyer is, that while it is a dead shut to all mecets, it is, at the same time harmless to mankind. The plantation contains 1,440 acres of nearly level land; water is brought on, and the plant is carefully enlivated and irri-The property is owned by J. D. Peters, of Stockton, and G. N. Milco, who resules on the premises. Forty-five nules further south brings us to the most enterprising town in the valley, that

### Fresnii + Dy,

Which now less about \$ 000 inhaldtants. In the immediato vicinity are several columes. The Centrainediato vicinity are several colonies. The Central is the oldest, and was started in 1875; immediately south is the Washington colony, and adjoining the town is the Fresio colony. The land lies in close proximity to the line of the 8, P. R. R. These lands are divided into twenty-acre forms, and with each lot is sold a perpetual water eight, for the purpose of irrigation. This water right consists of one-eight of a cubic foot of water per second, and is furnished from a conal or main ferder, which is brought from King's river, scross the plane, a distance of twenty miles. The only expense according from using the water is an annual payment of \$12.50 per lot, to the caual company, for maintaining the choir causts. The soil here is a rich, sainly loam, and is well adapted to fruite, vines, alfalfa, etc. Fruit canneries and wineries are established at Fresion, thus affording ready sale for the fruit and grapes grown in the different colonles. Freeno City has built thirteen brick blocks during the present season, and the prospects of large fruit and grape crops will cause others to b Fifteen miles further south, on the line of the railroad, 18

A skipping point for wheat, wool and live stock. Six miles forther south is Kingsburg, situated in a fine agricultural country. The former town con-tains about 500 people, and the latter about 400, One of the oldest towns in the valley is

### Vbaclta.

The county seat of Tulare county, It iles 239 miles southeast from Sin Francisca, and its some eight miles from the S. P. R. R., but is connected with this great thoroughlare by the Visalia Rail-road. Visalia has about 2 000 inhabitants, and lies in a time agricultural and fruit country, second largest town in the county is

### Hindori,

Which lies some 22 miles west from Visella, and is on the Hanford branch of the S. P. R. R. It is slimated in a good comptry.

Tulare City
Is the termions of the northern division of the P. R. R., 251 miles south from San Francisco.
 The railroad company have large repair shops here. This is also a time agricultural country, and artesian sater has, recently, been obtained by botting from 170 to 300 feet. Fifty-five action further south bring us to

of enpital have been expended in bringing the water on to the barren looking country, which now produces alfulfu, grain, corn, cutton and almost my kiml of crops. Bakersfield has about 1,000 in-

All these cities and towns have as good schools and educational advantages as similar sized places in any portion of the United States.

### THE QUALITY OF WINES.

Mr. F. Phudarif, of St. Helena, who is an exnert in wine-making, and has an European expericuce, gives it as his judgment that the manufacture of California wines is constantly improving their quality. The wines of to-day are not the crude, megary, over-alcoholized pradnots of a few years ago, but through expert handling, blending and attention to the variety of grapes from which they are made, are assuming a shape and quality that must eventually give them a rank with similar pure imported wines. Mr. Polindorff, in reviewing the character of native wines from the vineyards and cellars of California, cumes to the conclusion that our best products will soon sing their own praises, and will need no extolling by mouth or type. He says: "There are capitalists in our midet who have entered into the grape growing indostry in the right spirit; experience has effectually taught grape growers that quality is the best safe-guard against the necessity for sacrificing their product—pride of the quality of the latter is awak-ening the vignerou. High class varieties of the vines are coming into the country from abroad, and what is of merit is being eagerly adopted and multiplied. Facts have already proved that this is the right way to go to work, and when we shall be in possession of high class wines, the next step, will be taken unturally to establish nursing cellurs. California will then became possessed of stocks of matured wines, and results can then he waited for with patience. Discussions of possibilities or the reverse will then be needless. Our vineyards and ellars, modest as their extension in the aggregate will remain, even if the planting boom will be hept up at a higher rate thin at present, will hold their own in the near future, and varieties of wines will be seen, to which a fastidious palate from any country must remier justice. If in planting for quality there be equal thought given to raising light, sound, ordinary table wines at moderat., or better said, how prices, in order to let them he accessible to every American, the industry will undoubtedly prosper."—Napa Reporter.

### VALUABLE INTEREST RULES.

[Basis, Commercial year of 360 days, or 30 days per month.]

4 per cent -Multiply the principal by the required number of days, divide by 9, and point off. 5 per cent.-Multiply by the number of days, and

6 per cent .- Multiply by the number of days divide by 6, and point off three figures from the right.

per cent, - Multiply by the number of days, and divide by 45.

per cent.-Multiply by the number of days, divide by 4, and point uff three figures from the 10 per cent.-Multiply by the number of days,

12 per cent.—Multiply by the number of days, divide by 3, and 1 pint off three figures from the

rigkt. 15 per cent .- Ma, andy by the unpuber of days. and divide by 24.

18 per cent,-Multiply by the number of days, divide by 2, and point off three figures from the

20 per cent.-Multiply by the unwher of days, and divide by 18.

The interest in each case will be in dollars and

### CARP RAISING.

The stocking of fish points with carp and the raising of that delicious fish for the market is beginning to altrust great attention in this county. Mr. Osborn, of Upper Tule river, was the first to engage in the business here only a few years ago, and he has since sold young stock carp in nearly every county in Southern California. In the vicinity of Mr. Osborn's place, and also on Tule river, Georgie W. Dancau has two ponds stacked with curp The two ponds are two and a hill arres in extent and hour and a half feet deep, with fresh water continually running through them. year the fish with which the points had been stocked grew with surprising rapidity, but for some reason they did not spawn, When they were put in the pouds thuy averaged a pound in weight, and in less than a year the average weight was six pounds. Nothing was fed to them, the vegetation in the pomis furnishing an abundant supply of food. This your they

are expected to spawn, and in anticipation of Which lies at the head of the valley. It is heated this event Mr. Duneau is having mother pond on Kern river, in a level country. Large amounts dug. He proposes to increase the number his pinds until he has ten ucres under water. Carp find a ready sale in the San Francisco markets, and elsewhere, at coac-pointively high prices, and we prophesy that Mr. Duncin's enterprise will meet with flatter-ting surer ss. —1 isalar Bella

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### OFFICERS:

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### CLOVERDALE AND ITS SURROUNDINGS.

We take the following extracts from a letter hyd, B. Armstrong, formerly editor of the Santa Rosa Republican, to the Rural Press.

Cloverdale is a beautiful little town containing about 800 people. It is situated on the roul from San Francisco to the Geysers at the north end of the railway, in Sonoma county, and is probably better known to tourists than any village in Cale fornia. The neatness of i s interovements, and the picturesque beauty of its surrunnling scenery are unequalled in the Slute. Grape growing is looming np so as to overshadow most of the industries here. A great many acres have been planted recently to vines, and vineyard lands on the slopes have doubted to market value.

The valley of Russian river is the best in the State for growing Imliau corn. The soil is gener-ally a moist, samly loam. It is also emmently well adapted to the raising of hops, of which large quanare produced, especially at Hapland and Henlishing. On the margin of the bottom and ascending the slopes of the footballs, are vineyards, some in full bearing, and many newly planted,

There are rocky peaks and inaccessible declive ilies far above the river, but most of the land is fit for grazing, and some of it lying in nooks a thousand feel above produces fruit and grain. There are many cosy homes perched up among the clouds, so far awny they look like white specks no larger than a pin's head. The immense mountain grant called Caslamsyomi, contaming about 27,000 acres, is a dozen intles in length from a point opposite Litton Springs near Chiverdale. It lies on the east side of the river at an average distance of say half a mile, being bounded on the north by Sul plur creek, following its windings marly to the Geysers. Its eastern limit is a direct line ranning thence, southerly, through the fully Geyser peak to Sausal creek, where that stream enters the river bottom. All over this grant a large portion of which is necessible, there are settlers and improved ranches, with orch Its average eb valum may ards and vineyards. be from 1,200 to 1,500 leet. The surface is an undulating plateau, broken here and there with water courses and steep canyons. There is plinty of grass and timber, and, in many places, tine adube and other suits. The who'e country shows traces of volcanic origin-its ocks and patches of red soil, famous here, as elsewhere, for vine-growing.

The lastory of this flourishing grant is a checkired one. Until a few y-ars ago, the owners, who purchased it in early times for a trifle, were engaged in a punic war with their oeighbors about its location. Big as it is, the grant was shoved around to make room for older claims, until finally the proper anthorities confirmed the title to its present bound. aries. In the meantime, settlers swarmed on 11, where some have resided as long as 25 years. They at first hoped, perhaps, that the land would be declared public domain when the question was settled, and they, then, would be in shape to pre-empt and homestead. But it was anly a dream. The proprietors of the grant recently acquired a good title, and offer d the settlere the whole of it (more in extent than a township) for \$80,000-about three dol-lars an acre. The proposition was ac epted, lars an acre. The proposition was ac epted, and the land will be divided pro rate, among the settlers.

Attention is made to this traot because it is a bit of local history, and for the further reason that it shows what may be done with lowpriod mountain lands in the Coast Range, where there is plenty of moisture, with grass and a fair proportion of illable land, and a charate genial enough for growing every prodnet raised on this coast. The acts of the setthers abow what may be done by the agents of the State Immigration Association in other localities, emphasizing, thore particularly, the set on this class of land by cool-hearled occupants. The market value of the river bottom land is at least ten rimes as much in a

Datural winter. Ita productiveness is not proportion, nor anything like it. The outale front the writer would nesign to it as a busis for comparison, for mixed farming, fruit-growing, grazing, ite., including waste land, would be one in to five. Consequently the settlers I one in to five. Consequently the settlers have purchased their grant for about half its true

There are good schools, churches, hotels, a public hhrary, with water-works and other means of first-gation, such as beer shops and the like, and a water grist with that runs all the year runnil at Cloverdale. The authous for healthy sports is first-rate The river and several clear streams are near at hand, filled with tront. City sportsmen may, and we believe often ile, get lost when himting in the mountains, Numeroos healing springs to heyond, towards Clear Lake, over a smooth read lined with thu, buld scenery. And last, though not least, San Francisco can be reached and return the sunte day a very desirable convenience for families sojunraing

Subscribe for the Besources of California.

### AN ATTRACTIVE RANCH.

The Livermore Hornld thus discribes a place near Livermore, Alamrila county, that is destined to become notable same day:

Charles A. Wetmore, Executive Officer of the Sinte Viticultural Commission, is making, on his Ojn del Monte ranch, at the narrows on the Arroyo Valle, four miles south of Livermore, a series most notable improvements, both practical and ornamental. The ranch proper is a little valley completely surrounded by bills, with the exception wild, narrow pass, scarcely 200 feet in width, agh which it is reached from the outside through which it is for this valley, there is found nearly every possible variety of soil, from a disintegrated limit rock to the heaviest adole, and all the various slopes of hill and dule which an enthusiastic viticulturest could possibly wish. In the distribution his vines and fruit and unt-bearing orchards, Mr. Wetmore has shown a thorough knowledge of their various requirements and needs. His orchards of chesinut and filbert frees are planted on moist northeast slopes, such as are partially favor-

rows of rapid growing ornamintal trees, which are to be protected by a harbed wire fence, and are so lorated as to add to the effect of a grand curving drive into the narrows, and at the same time completo a natural screen for an adder-lingured deep-hole in the creek, which Mr. Wetmore intends for a public bath. It is his intention, to the near future, to erect a first-class place of refrealment, and a buth-house at this point. His ranch is at this time well worth a visit.

### IMMIGRATION TO CALIFORNIA.

At the present rate of immigration, the next cen-sus will show that California has taken an immense atrule forward in point of population. For some time the daily arrivals of immigrants have averaged in the neighburbood of one hundred, the lar-ger portion being matea or heads of families, commg with the intention of seltling somewhere within the fertile valleys and productive hills of the State, and bringing an immunse capital of muscle and enerry and, in many cases, a considerable amount of wealth,



THE POCKLINGTON GRAPE-A New and Famous Eastern Variety.

able to the growth of the hucheye (which is a chestant) and the hozel (to which family the filbert helmigs); of olive, on a bouch of light, dry soil, north of the creek; of fig and peach, on a lower beach of moist sedimentary sail, further east; of vines, on different expasures, according to vari ety; and of pear, in warm pockets of deep rich soll. Of each of these above named trees, he has orchards varying to extent from two or three to fifteen or twenty acres, some of this and some of last senson's planting. The office prohard planted a year ugo, is well surth a visit. But a small percentage of the trees were lost, the halance toaking a vigorous growth, and clearly demonstrating the pecultar fitness of this Irnit for cultivation upon our light, dry suits. Mr. Wetmore's place, taken as a whole, is one of the most naturally heautiful spots in this county, and he is with hivish hamil hunding the slid of art to nature. In the natural gute upening to the place, in itself one of the pretthest litts of mountain scenery in the entire Ounst Itange, he is diggling deep trenches, and replacing the gravel and rock taken therefrom, with good earth. In this imported soil are being planted

It is also shited that the railroad cumpany are very desireus of settling up the unoccupied or the Sinte, and to that end are sending out agents to induce hither a larger portion of the human aide that is setting westward from Europe and the Atlanno States. These agents are to work in a systomatic manner, and will in most cases forward no settlers until placea are provided for them. Governor Stanford's immenso rauch is lo receive its share of the coming settlers, a large number of vine-dressers being expected there from the shores of the Mediterranean. The olive also is to be cultivated on a large scale, and the clive groves of Italy will send their quata of skill and experience to further the development of this industry. The amiless manuer in which immigration has bitherto tended toward California is at in emil, and a aya tematic plan adouted similar to that in use by Kansas, Nebraska, Mirmesota and other Western States The ratiroad company towe no dustre to add to the ille populating, as their revenues are derived from actual producing settlers; and their vast aucomated tracts of land are awaiteg a population that will add to the carrying trade.—Nopul Register.

### CALIFORNIA FIRUPES.

As to the statements sometimes made by correspointents of eastern journals that fruit-growing in this State has been averdone and is likely to hing enthystors to griof, a writer in theugeneuthiral dispartment of the Weekly Bulletin, of this city, swered recently, an satisfactorily, that we publish what he says on the subject:

There is no more prospect of fruit culture being overdone in California than there is that butter and cheese untking and wood growing will be overdone, and yet the prediction that the latter influstries would be overdone longlias been made many times, and as often as made the lacts have dis proved the theory. Whoever goes about fruit cul-ture in a blind, haphazard surt of a way, may Bud in the individual experience that the business is oversione. That was found out more than twen-ty years ago. It was found out later when much poor fruit was dumped into the buy. There is no more dauger of averdoing the wine business in California than there is in France. By mean intelligent and skillful vitualines. By this wo

other means have so large values been taken from the ground per acre during the past five years, as by fruit-growing. Individual fail-ure here and there means nothing more than that the individual had made a susuase as to kinds of fruit he was growing, or in the methods of cultivation. Such mistakes per-tan to all departments of agriculture.

tain to all departments of agriculture. There was a market last year at reminerative prices for every pound of Bartlett and Wint'r Nellis merchantable pears, every pound of the belier sorts of plums and aprients, every pound of rherrirs, and every box of good upples grown in the State. There of good apples grown in the State. There was a market also for all good wine and table grapes at prices which paid tho limithsome profit. Prices for causing fruit were somewhat lower than the year before, but it was noted that many who grumbhal a little at low prices, went right on justing out new orchards, thus giving certain evidence that the business on the whole had been very satisfacthis State was gathered and marketed, the must extensive preparations for new orchards and vinegards wern mille that were ever known in California. In a few instances the planting area was abrulged samewhat by the drought in milwinter. But the late rains made it certain that vineyard and orchard planting would not to attended this year with more than the usual contingencies. Were this business overdone, how does it happen that men who have been long in the industry are doubling the area which they formerly devoted to fruit? There mny have been some extravagant stalements about the profit of fruit culture in this State, which no mure represent the average results than the New York Sun's ttem of frut land held at \$1,000 an acre, or that fruit culturate were likely to come to griof. What is still true unil has been true, is that for the greatest variety of profitable fruit culture, California offers greater inducements than any other State in the Union.

### DIVERSIFIED FARMING.

The following, from the Greenville, Miss., Times, contains some excellent suggestions, that may interest California farmers:

A little more than a generation ago the chief wheat producing region of the Union was portions of New York, Pennsylvanta and Olno. The whole of farming there consisted to growing big wheat crops. All the farm was wheat. In time the rich [110110 + 1 11]

wheat. In time the rich [150105] 11 dann, Illinois, Iowa, and Missouri were set-ited and brought under cultivation. The new hinds there far excelled those of other Stales in fertility, and the price of wheat went down below the cost of production; just as cotton has done here. Linds tell to \$5 and \$10 per acre and those who could sell, moved west, But, as with ne, few could sell, and the situa-tion had to be met. Diversified farming

grazing, the dairy and the poultry yard took the place of wheat. Lambs again appreciated far beyond their original values, and a lasting pros-perity was established. In time the then new landa were outstripped in wheat growing by the vast and fertile printies of Dakota, Kansas and Nebraska, and the rich valleys of Oregon and California, and they also changed the stock ruising and diversitied farming. The building of railroads has so extended and cheapened transportation that all they can produce fluds a ready and remunerative market.

### A VALUABLE FOREST.

A correspondent of the Lumberman's Gazette

In Humbolit county, California, the whole area ot the redwords forest has been mapped suil-platted. There are something over 500,000 acres of that timber in that county alone. Disinterested exports estimate 100,000 foot of humber per acro an average if not a small yield. At \$18 per 1,000 foot the relevant of Burnboldt county alone would just about pay the present outload debt.

SAN LORENZO VALLEY, SANTA CRUZ COUNTY.

What is said in the following article, taken from the Santa Cruz Scalinel, will upply to many other sections of our State:

There is no portion of our county which has added so much to our general wealth and prosperity within the past few years as the San Lorenzo valley. The industries of this section are in the main the manufacture of lumber and the production of railroad ties, telegraph poles, shingles, shakes, barrel staves, etc. grand old mountains lying to the unrth of, and in sight of us, which, but a few years ago, were deemed comparatively useless and almost inaccessible, are to-day spanned by numerous well-built wagon roads, dotted with the cubics of the hardy woodsmun, and made to yield their prodigious bulks of redwood trees, giving employment to an army of strong-muscled men, and added their great wealth to our county and State. Already these monutain regious, now partly denuded of their forest monarchs, are sought for and selected as the habitation of man, and with their selection, occupation, and habitation, spring into being the orchard, the vineyard, and the small farm, with their cosy cottages beside some cosy spring or rivulat, whose waters never cease to flow, but are forever continuous in their bright and sparkling wealth. As the axeman and ox-team advance, and the trees upon the mountain-sides and heights are felled, and their products conveyed to market, the husbandman, the viniculturist, and the orchardist keep pace with the felling process, and in a few moves, though there may be less timber and forest lands, yet as they disappear there will be a greater population, more homes, more substantial improvement and wealth. Much of the growth and advancement of this mountain region will depend upon the facilities for travel. Without roads locomotion is physically impossible for those who wish to there live and thrive.

### SMALL TRACTS OF LAND.

As public attention is called, at present, to possibilities of small tracts of land, we publish the following from the Yolo Mail:

At present prices land is not regarded as a good investment for wheat growing. Therefore any experience from small pieces of land is interesting. J. Y. Dillon yesterday gave us the result of his experiment upon ten acres of land. He began upon it six years ago by planting five acres to the Muscalel grape. now has seven acres; the last two being lately planted. He also has one acre planted to prunes, nectarines, and peaches. From his five acies, last year, his gross returns were \$1,200. He planted last year three-quarters of an acre to beets, which yielded him 35 tons. With these and a little brun or shorts he kept a span of horses and Iwo cows seven mouths, besides which he sold \$30 worth of beets. One of his cows yields him now from ten to eleven pounds of butter per week, besides the milk the family (consisting of his wife and one child) uses. When the cow is fresh he makes from her fourteen pounds of butter per week. Along his fonce he planted twenty walnut trees, not six years old, which have borne fruit the last two years From the wood cut from these frees this year in the trimmings he made little over three cords of stove wood. trees planted six years ago, and some of them twelve inches in diameter, will make, when cut into wood, from one-quarter to one-half a cord of wood per tree. Mr. D. says in the condition in which he now has his fruits and vines, he can make a living for himself and family, and lay by from \$8,000 to \$10,000 annually

### A GROWING TOWN.

It may not be thought wise to say pnything calculated to indate the price of real estate in Los Angeles county; it is perhaps selling for all it is worth now, but the possibilities of the future are almost beyond description. Our genial and health giving climate will continue, more and more, to attract hither from all parts of the world those who seek, and are able and willing to pay for, homes in this land of sunshine, fruit and flowers. As new homes are built and beautified, the country will become from year lo year more altractive, and the fame of our land and its attractions will become more extended, until the whole valley, from the mountains to the sea, will be crowded in every available spot with such luxuriant homes as refined taste, with abundant means, can plan and build in a land so favored lo soil and climate as this .- Los Angeles

### OVERDOING THE BUSINESS.

L. J. Rose, a well-known grupe-grower of Southern California, reports to the State Viticultural Association that his observation convinces him that Californians are going into the wine-grape business too largely; that the prowine grapes is certain to exceed the demand, and the result must be disastrous. There can be no doubt of the correctness of Mr. Rose's statement; this doubling the vineyards each year is nuwise .- Record-Union.

There are several points to be considered before accepting the conclusion of Mr. Rose or the endorsement of the above-united paper.

1st. The planting of vines will be divided between the wine and raisin variety, thus retarding, at least, the time when the business of growing the wine grape will he overdone.

The phylloxera is rapidly destroying the vines of Europe, thereby greatly diminishing the supply from that source.

3d. The market for California wines is exp unding as fast as the growing of the grape.

There is a murgin for a considerable fall in the price of wines, and still leave grapegrowing a remunerative business. And cheapening wines they will be more extensively At present the use of wines is comparatively limited in to the United States. people of the United States are, as yel, not a wine-drinking people; but they will gradually become so, when wines have become more generally known.

When the area to which vine-growing can be devoted on this coast is compared with the vast territory of the world, it will be found to be comparatively small. Other sections, it is true, will compete to some extent, but the wines of California can be brought up to such a quality as to practically place our products, in a great measure, above competition, and a market can always be found .- Los Angeles Ex-

#### THINKS HE HAS FOUND IT.

man writing from Colfax expresses the opinion that he has found the "mother lode" of California. He says: The Big Vein mine. which was bonded last week by Wm. Werry, is situated about three miles in a southeasterly direction from Colfax. As the vein upon which this mine is located runs in a southeasterly and northwesterly direction, throughout the entire length of the Stute, it is without a doubt the mother lode of California on the backhone and dividing line between the different geological and metaliferous formations extending along the western slope of the Sierras. For a distance of 75 miles along the vein, or from the vicinity of Quincy, Plumas county, to Mormon Bar, on the middle fork of the American river, in El Dorado county, the writer has made a cereful examination and finds that most of the creeks and gulches along the course of the vem have been rich. There are many mines located at different points along this vein, some of which have been and are to-day rich mines. The famous Amador mine of Amador county and the Banner Hill of Nevada City are two of the many mines that are situated on the mother lode. The ledges in the Big Vein mine consist of two different parts, each of which is from ten to twenty feet in thickness, divided by a vein of clay and serpeutine of a bout ten feet in width, and all ruuning parallel to each other, with a dip to the east of about 45 degs. The vein next to the footwall is composed of gray quartz and metalie slate, which assays from \$10 to \$100 per ton. This is strictly a "fine gold vein, the gold is almost pure, and is distributed in fine particles all though the rock from wall to The vein next to the banging wall talcose slate, heavily charged with sulpharets of iron and steel sulphurets carrying consideragle gold and silver .- Nevaila Transcript.

### GROWING ALFALFA.

A writer in the Sagramento Record-Undon states that a geutleman residing is Sun Jonquin county lately purchased twelve acres of bottom land, paying therefor the sum of \$200 per acre. When questioned us to the profits he expected to receive on the investment, having planted the land to ulfulfa, he replied that from the several cuttings he expected to get not less than four tons per acre, and that it was surely safe to value the hay ut six dollars a lon (now worth about \$16). Thus the alfalfa would pay twelve per cent. a year, at \$200 an acre for the laml. The pusturage would pay harvesting expenses, leaving the hay crop net.

### BUILD UP THE TOWN

The following sensible suggestion we clip from People from abroad the Petaluma Land Journal: are constantly coming among us. Let us treat them well and welcome them. If the particular of property we want to sell them does not suit them, refer them lo our neighbor, who has property. Let us not, any of us, act the dog in the mapger, but let us be hig-minded, liberal-hearted, and wilcome the very desirable class of people who are coning among us, to hospitable homes. is room enough for us all, while this generation And while we live and our lots are cast in such pleasant places, let us evince a disposition to share it with our fellow mortals. There is enough here for us all, and to the stranger who may sit to



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LIBERAL CREDIT SALE

CHOICE VINEYARD

FRUIT AND ALFALFA LANDS Within eight miles of the flourishing

### FRESNO.

And on Main Irrigation Canals.

Y ..... JULY 7th, 1883, At 2 o'clock P. M., At

FRESNO CITY HALL. Presuo City, Fresno County Cal

WE WILL SELL AT AUCTION ON LIBERAL CREDIT

Nine Sections of the Cholcest Vine.

Fruit and Alfalfa Land in the State, ADAPTED TO VINEYARDS, ALFALPA

AND GENERAL FARMING

Within nine hours of San Francisco, and possessing of the most healthful and delightful climates

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MOST LIBERAL TERMS. TITLE PERFECT. One fourth cash, balance is one, two and three years Interest, eight per cent. per annum. Twenty days allowed for search of title. A deposit of ten per cent will be required on the fall of the hammer, balance of cash payment on defivery of deed, and if not so pad (unless for defect of fille), then said ten per cent be forfelled and the sale to be void. Instruments of sale at Durchasses's expense.

all of sections 28, 39, 32 and 34, in township 15 south, All of sections 28, 39, 32 and 34, in township 15 south, tange 19 cast, Mount Diablo meridan. Also, all of sections 2, 4 and 4, in Township 16 south, range 19 cast Also, sections 25 and 31, township 15 south, range 30

Also, sections 25 and 31, township 15 south, range 20 cast.

The land is level, slightly inclining jowards the west; free from brush, alkail, and other impediments. The soil is a rich sandy loam, of great fertitity, and will stand free irrigation without baking.

The climale is as fine and healthy as can be found in the world-no fever and ague or other mularions disease. For throat or lung comptaints, the dry air of this section always relieves and often cures. For lovalide seeking health—the uncrebant, mechanic or protessional man, who is tired of the constant strain and drudgery of city life—this county offers a baser of rest. Here is overy element necessary for the establishment of attractive, enjoyably and profitable homes.

The SNSTEM OF RRIGGATION is such that sado owner of land will be able to take water from a man causi on his own land.

WATER thas been running on to part of his land during the past five years, and on any part of the tract water can be found within twelve feet of the surface, making it valuable for the planting of alfalfa.

COMPANY.

Saw PRANCISCO, May 7, 1883.

GENTLEMEN: In view of the proposed sale of land comprised in Sections 9, 30, 32 and 31 in Th 188.

Range 19 E., also, Sections 2, 4 and 6, in T 18 5., R 19 E.; atso, Sovicions 25 and 31, T, 18 S, R, 20 E., 20 E. and 19 E.; atso, Sovicions 25 and 31, T, 18 S, R, 20 E., 20 E. and 19 E.; atso, Sovicions 25 and 31, T, 18 S, R, 20 E., 20 E. and 19 E.; atso, Sovicions 25 and 31, T, 18 S, R, 20 E., 20 E. and 19 E.; atso, Sovicions 25 and 31, T, 18 S, R, 20 E., 20 E.; atso, Sovicions 25 and 31, T, 18 S, R, 20 E., 20 E.; atso, Sovicions 32 and 31, T, 18 S, R, 20 E., 20 E.; atso, Sovicions 32 and 31, T, 18 S, R, 20 E., 20 E.; atso, Sovicions 32 and 31, T, 18 S, R, 20 E.; atso, Sovicions 32 and Sovic

### THE WASHINGTON COLONY CHEESE FACTORY,

With Lat No. 38, containing 20 neres

### CHOICEST LAND IN FRESNO COUNTY.

CHOICEST LAND IN FRESNO COUNTY.
This property all lies South and West of Freeno and on the line of the main Canal of the Freeno Canal of the Freeno Canal of the Line of the main Canal of the Freeno Canal and Trigation of the Line of the Freeno Canal and Trigation of the Line of the Freeno Canal and Canal

### EXCURSION TRAINS!

EXCURSION TRAINS!
On Fridny, July life Exemption Trains utilized San Franceson in 15,20 A. M. and 4 P.M. for Freemo Gily. Tickeds for the Exemption will be on sale at San Franceson, Cakimant, Stocknin, Sacramento, Lathrop and office of Cacillic Coast Land Rugean, San Franceson. Tickeds For Fig. 80 A. M. Franceson, Control of Cacillic Coast Land Rugean, San Franceson, Mays. First-chause Arrenmentation can be seemed at Fresho by thingty indice to W. P. HAUER, Freemo PACIFIC COAST LAND BUIKEU, San Franceson, For further details, catalogues, maps, circulars, protes and clutters from resident Latineers and clunyardists, and all further information upply to the PACIFIC COAST LAND BURKEU, BURKEU, Services and San Cacillic Coast Land Burkeau. ports and letters from reshlent tarmers and rime lets, and all further information apply to the PACIFIC COAST LAND BUREAU,

W. P. HABER, Fresno.

EASTON & ELDHIDGE, Austicarent

#### HYDRAULIC MINING

Tallesion Evans, an eastern writer, who recently visited Cattfornia, reviews this great industry in We quote the following:

A hydraulic mine is simply an open out of linge dimensions excavated in the hitge gravel deposits. Sametimes this 8 accomplished without difficulty from the side of the canon forming the bed of the modern stream, or through the agency of a conveniently simated ravine. But, in many cases, the rim-rock of the ancient river-bed intervenes between the anriferous cameo which the hydraulic miner theires to use as a "dump" or depository for the "tailings" or debrie of his sluices. To reach the deepost place in the dead river-chancel, hing binuels are frequently necessary. The North Blommileld Mining Company, for instance, in one part of the claim, had to bore a tunnel eight thunsand feet in length hefore the bottom of the surifcrous gravel deposit was drained, and a branch tunuel nice hundred feet farther before another

part of the company's ground was so drained that it could be effectually worked by the bydraulic process. The original tuncel and its three air shafte cost the company two million dollars; the branch was proportionately costly. the water used in the mine, and all the material removed, passes through this tunnel into the cappon of the Sputh Fork of the Yuba. Such a hydraulic lonks like an enormons basin bollowed Many of out of the mountaio side. principal hydraolic mices co 'The Yuba Rulge" are of this order.

The character of the gravel formation le showo to great advaotage in a hydranlic The upper stratum, for a depth of one handred feet or so, is loose friable, and of a rusty color, which is caused, no doubt, by the oxidation of iroo pyrites, of which the lower stratification is full. The process of exidation is no doubt facilitated by the percolation of surface water through the gravel. The lower stratum of gravel is denser, well comeoled, coarser, and of a blush color. Owing to this latter feature it is called by minors "blue gravel," and, because of the greater portion of gold found to it, the term dirt" is also applied to it. Occasionally a stratum of pine-clay will intrude between the upper and lower strata of gravel, and a layer of gravel varying io thickness almost iovariably overlies everything. gravel deposit is rich in vegetable fossils Trunks of sugar-pine, and petrifications. manzinita, and other forest trees and sbribbiery, converted into solid stone, Fossil leaves and ferns are pleutiful in the pine-clay, and the footprints of birds are numerous in the same formation. Here, then, are evideoces of vegetable growth during the formation of these deep places, which is identical with, and quite as rank as, that which now exists. What shall interpret the testimony of the deep placers of Califonia? The great openings formed to them by the hydraulic miner furnish the enterprising and intelligent geologist a rare opportunity, which, thus tar, has been almost entirely neglected. The onty attempt worthy of mention is that of Professor J. D. Whitney's monograph of the deep placers of California, published at Cambridge, Mass. Ooo thing is, however, certain: It was after the great lave flow which overrun the State of Oregon and Northern California that the present water conraca were carved out, not only carrying off, to the course of erosion, the lava-cap and gravel deposits, but also grinding down the country rock, in some places, two thousand feet deeper than the heds of the dead rivers.

The mode of working a hydnulic mine is very simple. From the ilistributing-reservoir—a large artificial luke in the

of the mine, but situated at a much elevation — the water is conveyed in vicinity of ditches and long iron pipes, lifteen, twenty-two, or thirty inches, in diameter, to the monitors. The gravel removed by the atream is led through the ground shuces into the deep open cuts that have been excavated with powder and pick in the solid had-rock. These open cans are from fitteen to forty feet tand sometimes even more) in depth, and from four to six feet in width. discharge into the tunuel excavated through the nni rock, and the debris is then delivered to tem of slulces and "under-currents," by which it is expelled at "the dump."

### DIMIGRATION.

The Monotain View Immigration Society has been organized by colored residents of Stackton. The society has for its object the bringing of negroes from the Southern States to the Pacific Coast. The men are for farm laborers and the womeo for house servants.

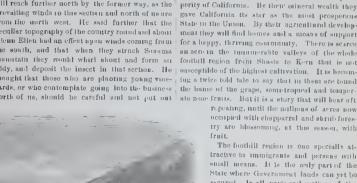
#### TOSEMULIS PALLS.

The New York Tomes copies from the Carnhill Magazine the following description of Yosemite

The width of the stream at the anomit is about 20 to 30 feet, but at the base of the upper fall it has expanded to a width of fully 300 feet; and, as the wind carries it to one side or the other, it plays over a space of about a thousand feet in width of a precipitous rock-face, 1,600 feet in depth. This is the hight of the upper fall. As seen from helow, the Yosemite, though divided into three distinct falls, is apparently all an one plane. It is only when you reach some point from which you see suleways that you realize that the great namer fall Ites fully a quarter of a mile further back than the middle and lower fulls, and that it rushes down this space in boiling cascades till It reaches a perpeoilicular rock, over which it leaps about 600 teet, and then gives a third and final plunge of about 500 feet, making up a total of little under 2,700.

### WILL IT SPREADS

Issae De'Furk, one of the State Vancultural Cum ors, says there are two ways by which the phylloxera, the grape viue pest, is transported from one section of the country to snother. One is by the wind when the insect is in its winged form, and the other is by transplanting rooted vines taken front an infected district. So far as he knows there is no phylloxers this side of Glenn Ellen, in the Guillicos Valley, and there is no probability that it will reach further north by the former way, as the prevaiting winds to this section and north of us are from the morth west. He said further that the peculiar topography of the country round and about Gleun Ellen had an effect upon winds coming from the south, and that when they struck Sourms mountain they would whirl shout and form eddy, and deposit the insect in that section. He thought that those who are plaoting young vineyards, or who contemplate going Into the business.





SITKA, ALASKA TERRITORY.



A VIEW OF THE BAY OF SITKA.

if you can realize that the hight of Nisgara is 162 feet, you will perceive that if some potent magicine could bring it into the valley it would be effectually concealed by trees of fully its own hight, many far overtopping it. Niegera, of course, makes up in width what it lacks in hight. The Horseshoe or Canadian Fall is about 150 teet. The width is 2,100 feet. The American Fall is about 160 teel in hight and 1,100 in width. The total width, inclusive of Goat Island, is 4,200 feet.

### POULTRY HAISING.

One of our prominent and successful racchers has furnished us with the result of his efforts in keeping thoroughbred poultry. From thirty-five hens of the brown mai white Leghern variety he ohtsined, from January 22nd to February 6th, 435 eggs, and the hene are still laying as vigorous as ever. It pays to keep the very best of poullry and eggs, and the heas are live stock, as well as the best of wheat, and many of our farmers would be surprised to see what a good lable can be set by the profits of keeping blooded poultry,—Gradky Herald,

rooted vices from injected districts; and that if the insert ever obtains a motherid to Cloverdale in any scening lying in the tract of the northwest winds, it would, in the course of time, overrun every valley in Somma county. Mr. DeTurk is a practical, painstalting and observing non. He has made the phylloxera a study for years, and his ideas regarding the probabilities of ther spread in this county are necessarily deduced from well established premises. He suggests a very effective remedy, and to our notion the only one that oac possibly prove ancesstult. The msects move in colonies, and when they first attack a vineyard, they are that observed in spats here and there; the renerdy is to pull out all the vines thus affected, and a few others near by, and pile them over the place ar taile from whence the affected vines are taken, und having added kindling and other combustible material, set the to them, thus heating the ground and billing the insect and destroying the birrer, if perchance there may be any under the bark.—Sunta Rosa Republi-

### THE VALLEYS OF THE FOOTHILLS.

It is gratifying that the valleys of the fauthill contities of the State are coming to be appreciated. It is indisputable that the countries verging on the Sherra are mining the most productive regions of California. With the sid of sidefull plays, their shipes can be utilized for rushing grain, while for oreliaris and vineyards no better location can be found on the globe. The toutfull countries are destimed to play an important parini the future prosperity of California. By their otheral wealth they gave Caltfornia its star as the most prospering State in the Union. By their agricultural develop-ment they will find homes and a moans of support for a happy, thriving community. There is scarce an aero in the fundineralite valleys of the whole football region from Shashi to Kern that is not susceptible of the highest cultivation. It is becoming a twice told tale to say that in them are found the home of the grape, semistropical and temper-

> occupied with chapparril and strub fores are blussoming, at this season, with

The foothill region is one specially attractive to immigrants and persons with small means. It is the only part of the State where Government lands can yet bo secured. In all parts and sections of the footbills land can be purchased at moderate rates. The many mining campus scattered up sul down insure a home market for all the produce that cao be raised. There is about everything in the footbills which can tend to make life com-fortable. The chimate is sambrious, fortable. Y e neca-tonal cold snaps in the winter only make the charming apring more enjoyable. Game everywhere abounds. The mountain streams in the seasons are tilled with front and other fish. The soil is productive. Proughts are unknown, and if in any year the rainfall is short there is abundance of water from the melting sooms in the mountains for irrigation

The picture as above delineated is not overdrawn. The footbill farmers of Califorms are among the most presperous to the world. Let any person examine the homes and surroundings of the farmers of Nevada, Amador, El Dorado, Placer and a half duzeo other counties, and his observations will more than justify the statements made in this article, only complaint it is possible for the foothill farmers to make is that they are some what illistant from the large cities the country is dutted with schoolhouses and churches. It will not be hing, also, before narrow gange railroads are trating into all the footbill counties, bringing the people within twelve hours of San Fraccisco. The footbill farmer has farther exceptional indvantages over his breibren of the volleys in his facilities for stock-rusing. He has unfold acres to the mountains upon which he can herd his stock in the summer months, and he ean without difficulty get enough hay to feed his cattle and sheep in the winter, There is no unin who has settled to the footbills and tried honest hard work who has not succeeded .-- Cor. San Francisco Post.

### VINCYARD NOTES.

The Livermore Herald says: The growth shown, this Spring, to all the vineyards of last year's planting, in this vicioity, is as once surprising and gratifying. During the past three works, the young simuts have pushed out, from mere hulls, to from n few moles to a fact or more to length, and the appearance in the larger fields is must be untiful. The thorough hold in the ground which the cuttings of tained last year, as evalenced monster roots they exhibit, when dug no.

is now beginning to show the ethict, to a vigor growth selfion attained except in old vines. the depth of our suil, and its freedom from bed-rock, making possible a bij root, with minumeralife literal feeders, he the secret of this growth, unxiliary gausses being also found in the looseness and warmth of our soil, treedom from hartful frosts, and the thorough cultivation and care received by our vineyands. A rule through our several vine districts at the present time, will be rewarded with both pleasure and profit,

### SONOMA COUNTY'S CROP.

We have seen and conversed with a number of farmers during this week, and they all spoke io cheering terms of the crop prospects this year. Though the growing wheat has been ladged in a unmber of places by the late, heavy rams, it will not be materially injured, but it may be affected with cust a little. Summer county has never seen a helter year. — Petabona Courses.

Subscribe for the flesounces of California.

JOHN P. H. WENTWORTH. EDITOR AND PROPRIETOR.

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#### READ AND CIRCULATE.

When you have rend this paper preserve it and lend it in your neighbors, as send it to some friend in the Eastern, Western or Southern States, Causala, England and Cautiern States, Causala, England and Cautien it Countries, and might be likely to come or send intelligent, ladustrions farmers to settle in California.

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### PROF. THOS. PRICE

Departed for Europe about two weeks since, He will be absent for two mouths. Price stands at the head of his profession in this city. As a mining expert he has few A report from Prof. equals. Thus, Pluce, on the condition and quality of the ore of a mine, is taken as law, so far as knowledge con determine the value of an unworked or undeveloped mining property. His son, who has completed his studies in the School of Mines at South Kensington, London, will return with him. Mr. Price has a host of friends here who wish him well and a speedy return to his Culifornia home.

NEVADA CITY AND GRASS VALLEY, Are two of the most picturesque, quiet, soutinspiring mountain towns in all California. In the month of May, in these sections, naturo unhosoms herself and comes lorth, in her most inviting mood, and wooss to loving embrace all who can appreciate true grandeur and heauty. The scenery here is grand! It is surprising that more of our Catifornia artists do not put on canvus, in culors that shall never lade, some of the henuliful pictures of nature, surrounding Grass Valley and Nevada The people of both cities are hospitable and kind, and take pleasure in making the visits of friends and atrangers enjoyable und pleasant. Around these pioneer, mountain towns clusters very interesting history. And many noble souls who have helped to make this history are now passed away, and have left, to other hands, the task of completing what they so nobly commenced - the school, the phurch, wellorganized society, happy, permanent humes, homes that every child shall take pride in claiming, however har removed from them be may, in after life, become.

These cities are in the center of the richest mineral belt of California, and we predict great revenue from hundreds of mines that are termed "low-grade ore," and, at present, na-worked and nudeveloped. The future of this section of California is promising; and, in the course of a decado, will cause many, who are now aslerp over ungulficent surroundings, to Why ! Who would have thought it !

Herewith we return thanks to our brothren of

### AND BRIGHT FUTURE.

There is every reason to believe that I883 will be counted one of the most prosperous years the Golden State has ever had. The ontlook, in all directions, is certainly of a most encouraging character. "In business, as in unture, the spring forecasts the year." and, judging by present appearances, an unusually favorable year awaits the larmer, the merchant, the artizan, the miner and the mannfacturer.

The managers of the Central Parific Railroad state that, from the most reliable information to be obtained regarding the progress of the State, they have made the following estimates of the productions for this year: Wheat, 1,200,-1100 tens, and worth \$36,1100,000. The mines will yield \$20,000,000. The wool clip is estimated at 42,000,000 pounds; worth, at least, \$30,000,000. The fruit and wine products, \$30,000,000. Cuttle, for market, \$4,000,000; and sheep, \$1,200,000. Dairy products are estimated at \$700,000; and thax, silk, cotton, eta., at \$200,000. Miscellaneous products are estimated at \$100,000. This nuckes un aggregute of \$82,600,000, or \$62,600,000 for agricultural and kindred pursuits. Now, when we take into consideration the fact that only about one-sixth of the entire population of the State is engaged in farming, we think this is a good showing.

There were, at the beginning of this year, demosits in the bruke amounting to \$93,042,-243 30, against \$86,391,519.90 January 1st, This is adultioual evidence of the prosperms condition of our people.

We might add that the forests of the State firmsh, annually, hundreds of millions of feet of Inmber, which find it ready market; and our manufactures amonut to something over \$100,000,000. There are, niso, other products, too numerous to mention, not put down in the Central Pacific Rudroud Compuny's list. When the vust extent of our possible agricultural productions is considered, in connection with actual results, and the present proportion of our population to the area of land suitable for cultivation, it will be seen what room there is for a largely-increased population for years to come, and what opportunities remain open for those possessing the necessary qualifications to senure homes, plenty and independence in the land most favored by nature of any in the world.

Senatur Edmonds, who has recently visited many sections of the State, is reported to have said, in the course of a conversation with a newspaper representative, that in the thirty years since the American people got fairly started in their California career, they have performed an amount of labor, and created up amount of wealth that is absolutely marvelous to contemplate.

General Sheriann said, not long ago (at the California Proneers' celebration, held in New York City), that the newspapers of California have never exaggerated the wonderful resources and capabilities of the State, and scurrely comprehended the vast, varied but comparatively undeveloped resources of its agricultural and mineral wealth

Count De Lesseps, who visited California, a year or two ago (in interviews with the press representatives here), said that he was partieplurly impressed with the visi resources and nulimited possibilities of the Golden State. He was amuzed at the extent and richness of the country contributing to San Francisco's wellare and wealth. "It is," said lie, "the one country in the world most like France; passessing all the advantages of climate, and commercial value of location, and also having many natural advantages, minoral and timber bonds, and wonderful grazing lands." closed by saying that "the future of California is sure to be grand. How can it he other-

President Hayes was reported, in an Eastern paper, to have stated, after his relaru from his visit to this const, that, in his apinion, " Califorms is the most inviting field on the continent for the establishment of paying enturprises." This is a high trilinte to pay to our State, and it is true. Our climate and productive empreity give an advantage which can no where else he lound for successful invest-

The editor of the New York Shipping List, who recently visited Culifornia, closes an arti-cle in his paper as follows: "California's the press who so kindly and politely noticed, ele in his paper as follows: "Califorula's manes a in their papers, our visit.

record of agricultural development, in a Herald,

THE RESOURCES OF CALIFORNIA. PALIFORNIA'S GENERAL PROSPERITY Quarter of a century, challenges the world for A PRIFFFABLE FREIT TO CHATIVATE a parallel, to say nothing of the progress that in the production of wool, los been madi wine, fruit and other products of the soil, toeether with those of the mine, the workshop and the factory. With such a regularition of vast and varied resources California can not full to prosper."

Since gold was discovered, we have produced and sent into the channels of the world's commerce more than a billion dollars worth of the precious metals. Industry, in all parts of the world, has felt the henefit of the stimulus thus given to trade; the demand for labor has everywhere been Increused. The gold mines of California, notwithstanding the vast treasnres they have given to the world, are com-paratively unworked fields. They are spread over an immense area of territory that has been proven to be rich. Far-scoring men are beginning to realize the importance of giving more attention to this great industry as a source of profit that will be reliable and lasting. It has been found that hew-grade are mines, when economically worked, pay a good profit. This is the case in Nevada, Plumus, Sierra and other counties where quartz mining is extensively carried on. Our wheat exports, during the last quarter of a century, have not been fewer than 150,000,000 centuls Apart from the precious metals, our export trade has attorned a value of nearly \$75,000. 000. Statistics show that, notwithstanding the many drawbacks our State has heretofore labored nuder, on account of its remoteness from the great centers of enviluzation, and other causes, yet nearly one-fourth of the increased commerce of the nation, since 1849, is due to Cahfornia alone. In general commercial and financial affairs, the position attained by the State, and more particularly San Francisco, during the period of its existence, nuder American rule, exhibits a degree of rapid progress altogether without a parallel in history. And yet there are some who say that California has not made much progress.

So far as we are concerned, we are justly proud of our adapted State-proud of her great natural resources, which are ample enough for the comfort and support of 20,000. 000 people. In our opinion, California has a brilliant and promising future, more so than any other State of the Union.

### FRESNO LANDS.

We would call especial attention to the large body of very fine land that Messrs. Easton & Eldridge will offer for sub, in Fresho county, near the flourishing town of Fresno, on the 7th We think it safe to assert, that a brighter future awaits no portion of our prosperous State than this section of Fresno, its future no longer being a problem to be determined. In no section of our whole conntry can its fine affalfa fields, magnificent vineyards, and orchards of apricot, peach, pear and prone trees he excelled. When it is remembered that 2,000 cubic feet of water per second -more than 30 times the volume of the Los Angeles river-menus 172,800,000 feet, per 24 hours, or enough to cover, in one year, 1,417,-590 acres, 12 inches in depth, (more than four times as much land as this section conmins), and that this autount, or even more, with be running over this section in 60 days from this date, it will readity be seen how thoroughly it must be irrigated; unit if such hinds hear Riverside, Pomona and other sections bring from \$100 to \$400 per nere, and nreindeed, cheap at such prices (when the aunual revenue which can be obtained from them is borne in mund), such lands as these are pertainly great hargains at from \$20 to \$30 per acre, at which price, we are informed, a portion of these lands will be sold, if no greater hid is made on the day of sale.

### PERSONAL,

T. K. Dow, of Melhourne, correspondent of The Australusian & Argus, paid us a lenternal visit. Mr. Dow will remain with us, in all, for several months.

### A BIG CLEAN UP.

The Maytlower Hydraulic mine, at Forest Hill, clouned up hast week after a run of about four weeks, and realized some \$25,000, This, now, is one of the leading hydraulic minos on the Forest Hill divide. - Cor. Placer

It has been demonstrated, by practical experience, that the cherry is just as easily cult, viited, quite us sure a crop, and will puy fully afty per cent more, to the tree, than any other kind at fruit of the sums age mail size, We have been informed that at Soquel, Santa Chara, and other places, there are cherry ouch ands, from fifteen to twenty years old, that yield numually a crop worth from tifty to sinty dollars to the tree. When we take into consideration the demand and exorbitant prices which this choice fruit brings, it seems somewhat surprising to us that the area planted to there ries does not increase faster. In addition to what is consumed in home markets, a large amount finds ready sale across the mountains, Choice cherries retail, in this city during the entire senson, at an average of twenty-five cents per pound. There is a large profit in chernes, especially the finer varieties. Just think of all Au ordhird of five acres, containing sixty trees to the more, yielding fruit that will sell readily every senson for from \$15,000 to \$20,000, The Los Angeles Ihrald, after mentioning the first that the first therries of the seasun salil in Sain Francisco at 75 cents per minut, adds: "Who says it doesn't pay to grow cherries? No finit juys better than this and none as well. The market has never yet heen supplied with half the amount needed, We again urge upon our horticultural readers the necessity and profit of plenting cherry trees. Las Angeles county produces fine cherries and should have 10,000 more trees to sup. ply the nurket with fruit."

We trust that hereafter more attention will he given to the cultivation of this really valuablo fruit. The cherry tree will thrive in almost every climate of the State, from Modoc in the north to the almost tropical San Diego in the Summy South. Imismuch then, as this fruit is so much sought after both at home and abroad, we counct see any plansible reason why it sample not be cultivated on as large a scale as any other kind. We throw out these suggestions for the benefit of those who, perhaps, larve not heretofore had their attention called to this branch of fruit culture, with the hope that they may give it carelul attention.

### HARVEST HANDS.

There seems to be but little doubt of the fact that there will be a scarcity of laborers to harvest this years' crop. We see it stated, in our interior exchanges, that this question is already being dis-cassed by farmers. The Modesta News says that several larmers have requested the editor of that paper to make it known, through its columns, that there will be an extra demand for laborers in the burvest fields of Stanislans county, the prospect for a very large yield ninking it important that Inborers should be notified of the demand. The News thinks that there is no doubt, but a thousand laborers will he able to find employment, but several months, over and above the supply already on hand, in that county alone, The wages will be 88 liberal as muy in the State, ranging from two to four dollars per day. The News trusts that the Sau Francisco papers will give notice of this fact as there are hundreds in its streets who may want to make a stake in the barvest fields. In several other counties the same feurs are expressed, and the local papers chorus the same song; and, in addition, they intiunte that the large farmers will be numble to procure sufficient threshing machinery to enable them to finish their work within the time usually allotted to the harvest months.

Generally, at this time of the year, just before the commencement of a prominent harvost, interior towns are overrun by nuemplayed men, who have San Francisco, and other large towns, for the purpose of seeking employment is the harvest field. But this year seems to be an exceptional one in this

Were it not for our populiar climate, which allows the horvest and threshing season to be extended through a portion of the fall, such & harvest us the present one could never be garnered. We are satisfied that California will produce as much grain, and, in fact, every thing else, as in any farmer year. Through invreused settlement in every portion of the State, a larger acreage has been sombal that ever before. A traveling correspondent of a excellent opcity contemporary, who has tank portunities for judging, says that the labor supply in Culifornia to day is not equal to the

demand, and that every person, honestly desiring employment, can obtain it. Consequently, there is no exense for idleness. The writer, in question, states that it is unfortunately true that there are bandreds, and perhaps thousands, who would rather grawl-than work. Of the approaching harvest he is of the opinion that the labor force obtainable will be insufficient to gather the grain. He advises all idlers in the cities to push out into the By idlers he means bonest nuemcountry. ployed laharers, whose only capital is their hands and willingness to work for good pay, Even on the west side of the great San Jouquin valley fair crops are assured since the late In our judgment, there will be not only room in the harvest field for every luboring man and boy now in the State, but for hun-

dreds of new-comers. The harvest will afford the latter class an opportunity to become not only acclimated, but it will also give them this very best chances to get initiated into the ways and habits of California farming, that will be of meulenloble benefit to them. In other words this probationary season will serve as a stepping stone in their future career. They can save money enough with which to make a beginning whereever they may locate. Taken then, all in all, we are of the opinion that the coming harvests will be the means of opening the door of a bright future to many a new-comer.

# A WONDERFUL AND USEFUL INVEN-TION.

Our attention has been recently called to one of the best and most practical inventions, in connection with house building, that has been discovered, for a bulf century, in the shape of a novel window sash; and its perfect simplicity excites our wonder and admiration Wonder: that it has never before been invented; admiration: in the genius that has given birth to a so much desired improvement in the construction of a window.

By this invention a window can be washed from the inside of the room, without exposing the person to the danger attending the present minner of washing windows by setting or standing on the outside. There has been felt. for a long time, a necessity for some such construction of a window sash, whereby the trouble and difficulty now experienced might he avoided, to say nothing of the peril of life and limb, by the one cleaning the sash, and we think that this invention must attract the notice and admiration of all housekeepers and house builders. The sash is opened by means of a "ketch" inserted on the side of the frame the window revolving un a pivot in the center of the sides of the sash, thus reversing the the window sash at pleasure, drawing the sash down and cleaning it on the incide of the room, without having to remove any part of the frame work, and there being no springs the most inexperienced servant can not get it out Time and labor are saved, and all of order. danger is overcome, and, we think, humanity and economy will induce utl persons, owning bouses or about to build, to make use of this very simple, though amazing, contrivance.

The inventor is Mr. A Rudolph, of San Francisco, a gentleman of education, and, moreover, a genias of rare ability, and we bespeak for him great success from this practical and so mach needed improvement. window frame and sash is now on exhibition at the office of John Muldleton, No. 14 Post St., in this city, and we would advise all persons sbout building to call and see it, and observe the perfect cose and simplicity of the movement of the sash.

We predict that, this sash will, in a very brief time, come into general use, as the cost over the present one is very small, and its advantages are great and numistakable. ters patent have been issued, in this country and in Great Britain, and we trust the inventor may reap the rich harvest that his brain has earword.

### ANCIENT GRAVEL HEDS

A correspondent says: There is an immense extent of auriferous gravel, capped with coment, lying in El Durada county in the vicinity of Volcanoville, which has yet been only partislly prospected, and which is said to contain untold millions of wealth. A better apportaoffered anywhere in the State, than in opening up the aucient gravel beds of El Dorado county,

THE FOOT-BILLS OF THE SIERRA

Crowning Glory of California.

[Written for THE RESOURCES OF CALIFORNIA, by James C. Kemp.]

"Think Gold we are once more back in California," was the remark of a gentleman whom the writer met, only a few days since, who, with his family, had just returned to the State, after un absence of four years. And this, render, is the heartfelt sentiment of every man, or woman, who has ever enjoyed th superb climate, breathed the glorious air, gazed through the peerlees atmosphere (which has no equal), or slaked his or her thirst with a drink of the pure, crystal element that flows from the countless ice-cold rills, whose source is the snow-elad summit of her eternal mountains, and which, under the same circumstances would foully be re-echoeil by the thousands of old Culifornishs now scattered, for and wide, over all the earth, who, like the mythological first purents of the heathens, once having crossed the bridge that stretched to the mainland paradise, were never more able to return.

We have but one chauce in life. It cames sooner or later to us all, and if we fail to seize and improve it at the opportune moment, all is lost, and this world henceforth becomes to ns a listless blank.

Notwithstanding the many years that have come and gone since the time when public attention was first called to Culifornia-through the wonderful gold discoveries which, at the class of 1848, formed the all-absorbing topic of the civilized world-people in our own country, at the present time, as well as those beyoul the occur, seem to have but a slight conception of what can actually be accomplished here, and of the stupendons results that will certainly obtain in the course of the next 25 yeurs.

The truth of this is domonstrated daily by the remarks of highly-educated and distingnished persons, who have made the journey hither for the first time, and who, in every instance, express the most unbounded admiration and astonishment at the unprecedented resources apparent on every hand, and of the matchless beauty of that climate which, once enjoyed, can never be forgotten, and which, all unhesitatingly concede, has no counterpart on all this earth, it particking of the unture of every other, from the equator to the poles.

The changes of the last 50 years have been very great, and cover every class of human experience, and so truly is this the case, that it has become an established principle that the time has arrived when our young men must seek new avenues of employment, ahandoning forever all thought of the pursuits through which their fathers, and immediate ancestors, gained their livlihood.

As civilization advances, the Indian finds himself a natural horu hunter, with neither hanting ground nor game, and is literally forced, by stern uccessity, to loiter around the frontier towns and railroad stations there to earn, beg or steal a living as best he may; demoralization of the worst kind ensues which, sooner or later, ends in the atter extinction of a and all his race.

The same remarks will apply, with comparative force, to the young man who, arriving at maturity, purposes to follow in the footsteps (using the term to an industrial sense; of the two preceeding generations.

During the period alluded to, we have, as a nation, advanced very rapidly from extreme poverty to very great wentth, and while there are many citizeus whose fortunes run up into the millions, from ten to a handred millions for that matter, there is a vast aggregate who are the possessors of from three to five thousand dollars, and it is to this class in question I wish to address the subject matter of this commu-

California is the most wonderfully endowed region known. It we take a map of the State and study it carefully, the fact will become appurcut that nature evidently intended her to become, some day or other, the sent of a suighty coupire. First of all, she is second in size, when compared with the other States (Texas alone being the larger), and is capable of sustaining a population of 20,000,000 of people. Her principal barbor is the largest in known world, its grand entrance-the Golden Gate-being located very nearly on the exact center of her coast line. It extends a northern and receives the waters of the two children

great rivers, Sucrements and San Jouquin, the | naturally, shrink from what modern society former flowing southwardly from the northern portion of the State through the Sacramento valley, and the latter northwardly from the southern portion, through the San Jonquin valley. On the eastern side of these two valleys stands the great Sierra Nevada, with its summit of eternal snow, 12,000 feet above the level of the sea. Having their source in this mighty range of mountains, and ranning westwardly towards the two streams alluded to, ore twelve other rivers which, in their course, traverse the foot-hill region, which I have porticularly and very explicitly described in the April and May numbers of this paper, of the present year.

This sertion also comprises the gold region of the State, and is the locality from whence all the precions met ils have thus fur been takun, and which, far from being exhausted (as many people suppose), has only been skimmed over.

The water there is of the purest possible character, equal to, and probably the very best upon the whole globe. In this region can be raised, successfully, every product the bumum heart can rotionally desire, embracing all the known fruits, vegetables and cereals of the temperate and semi-tropical zones. Magniticent pasturage for cattle, horses and sheep, and a water power sufficient to run a hundred thousand large mills, and still have an equal quantity beld in reserve.

Iron and copper mines, the former producing pig iron equal to the best imported, together with every other known mineral, und very extensive quarries of magnificent murble, grante and basult. Sugar pine trees in great abundance, twelve feet in diameter, and a vast wealth of other timber for all ordinary pur-

It is in this remarkable section that the great Yesemite valley is situated, and here, too, is the locality of the wonderful Big Trees, some of which are one hundred and odd feet in circumference,

When the vast gold, and other mineral deposits, beretofore unheard of water power, immense timber resources, splendid pasturage and great areas of land especially adapted to viticulture and fruit growing are considered. the mind actually becomes bewildered, and mstructively asks the question, must it not, will it not, and what power on earth can prevent this great section from becoming, eventually, the grandest, most beautiful and opulent in the whole world; and why cannot California sustain a population equal either to France or England, especially when it is considered that foot hills alluded to embrace but onethird of her vust domain? And, reader, the time will come, when the population of this State will be fully as large as that of either the countries referred to. Even now, there is no place where the poorer classes get so many of the comforts of lite; null when the day arrives that the great foot-hill region is fully developed, it will be, heyoud all comparison, the best place for any one to live in, no matter what the occupation. We are connected, by railroud, with New Mexico, Colorado and Texas, and to bring cuttle bither from those places is but a matter of three or four days. In fact, California is so situated that very high prices for meat, and other articles of food, car never rale.

As I stated at the commencement of this article, the boys of to-day find themselves in very much the same condition as the Indian. and it has become a settled fact that they must ahandon the old and played out methods of gaining a living which, even at best (owing to the productive power of labor-saving muchinery), would only afford the most meagre kind of one, while the idea of a young man marrying under such circumstances would be absolute maduess.

This state of things exists, to-day, to every part of America, and can not be ignored. In fact, it must be looked squarely in the face, as it means nothing more not less than the literal extinction of the American element in our populution; and this brings me right down, at once, to the great foot-bill region of California, which, to my mind, is the very section designed by the Great Creator expressly to meet thus crisis in American affairs.

Here is the exact place, my friend, to locate, and I will tell you why. You have sons and daughters who have received a splendld education, such an one as the grand free-school sys a distance of over 60 miles mand, and at its tem of this great nation affords to all its They are somewhat refined and, and children can work without fear of malaria

calls "course, menial labor"; and I do not know how we can very well, under the circumstances, blame them; feeling, and justly too, that they are titted, by nature and effication, for something better. The learned professions afford no lupe whatever. Clerkships, now-ndays, have degenerated into literal white shivery. A trude is a relie of the pust, and finally, to become a praducer of raw material, in same shape or other, seems to be the only available chance left; and right here, in the foot-hills of the State of Colifornia, is their grand opportunity, and yours also

Cuttle breeding is very profitable, but it requires a peculiar style of man, and there is a sort of wild life cannected with it that might make your sons degenerate into cow boys. Hog raising, too, will surely puy, and is certainly a good business, in one sense of the word; but what you desire for your hoys is something that will give their education and taste a chauce to become available. Agriculture is grand, but, in order to become very profitable, it must be curried on upon an extremely large scale. This brings us to viticulture and fruit raising, and here we have the very hest business above all others. We need seek no farther; for, in Culifornia, it means health, wealth, happiness, manly independence and a glorious opportunity for education, refinement, intellert and taste to have full play, A husiness that demands, for that matter, these exact qualifications, and which, in consequence of the immense strides made of late in the process of drying, couning, and otherwise preserving fruit, is destined to become one of the most proutable pursuits possible to engage in; and California will become, and that, the not very distant future, the great wholesale depot of the world for these products. Even now, wherever known, they take precedence over all others, the heantiful canned apricots of this State gracing the tables of the nobility and wealth of Europe. There is, literally, no end to the demand for all our productious, and if every acre of the glorons foot-hills in question were under cultivation, every pound of the combined product would find a market.

The render will, doubtless, ask the question, why is it that I lay such stress upon Culiforms, and especially her foot-hills; and if it is possible that no other section can raise the products referred to, and come into competition with her.

Florida produces oranges of a delightful dayor and quality, but it is the home of yellow fever, disease and death; and this fact holds good with reference to all the Gulf States, In Mexico, many of these products can be raised, but there the tarantula, jugger, scorpion and centipede abound, and beside all these, the climate is too debilitating. Next comes the Central American States, and with them one of two things, either the Panama fever and death, or a torpidity of the liver which, in short order, will take all the snap and go-ahead right out of a man. Capitalists may try their best, and statesmen may prate about the grand Republic that will, one day, reach to the Isthmus of Panama-but it will never be. Nature has forbidden it, and a human being's liver has a great deal to do with his actions Lut that once get chronically torpid and he will keep very quiet, and, as a business man, will never more be heard of. The Sandwich Islands possess a fine climate; but there, leprosy looms up its awful head; and the islands of the Pacific are mostly in the hands of the Cananbal. In the Northern States the climate is too cold, and season too short; and, of course, in British Columbia even more so.

It will thus be apparent to every one, that for such a business as viticulture and fruit raising to rise to the immense proportions I have outlined, the climate and locality must be of the very best possible character; and this is where California is supreme, the statement being as true as was the old saying, with regard to the Southern States, that "cotton was king," To illustrate: Not only must the climute be adapted to raising the grape, but, in order to make them into raisins, the long, dry, hot weather of September and October is necessary, and right here is where 180 to 200 days of conscentive sanshine beats every other nortion of the known world. Finally, to sum the whole matter up in a few words, she has the soil, climate, extremly lone season, that is free from even a vestage of cloud; and right here, in this glorious section, millions of men, women

or intermittent fever, and even the consumplives, if not too far game, can be cured. Some other portions of the world might be able to ruise the fruits, but climute, disease and the political nature of the government, as well as hand titles and other troubles, present obstacles insurmountable. This region, however, is in free America, and much of the land can even now be pre-empted and purchased at a comparatively low price. Never before was such a One opportunity offered to every man, who has the means to obtain his hand, fence and improve it; and my advice to every father in the country, who comes within the category I have described, is to neither halt nor hesitate, but sludy into the merits of this subject at once, laking for his guide, at the outset, the Iwo preceding communications, published in this paper, upon the subject of the foot-hills of the As I said before, the state of things that has been brought about by the great mechanical and inventive changes of the nast 50 years, can not be ignored any more than the fact that old age crerps on apace. We must look the world squarely in the face, and shape our course accordingly; live strictly in the present, with a keen aye to the inture, and more especially is this imperative in these limes of rapid change and wonderful development.

The grandeur that California will reach, within the next 40 years, can scarcely be estimated; and before closing this comminnication I wish to call attention to still another of her mighty resources, that now gors literally to waste, which could be made, ananally, to be worth, I might safely say, \$200;-000.000.

It is well known that the Sierra rises to an altilude of from 10,000 to 15,000 feet, the summil being covered with perpetual snow, and the slope of the mountains, for fully 40 miles, with a depth of from ten to twenty feet. In other words, a strip of snow 750 miles long, 40 wide and from ten lo twenty feet deep, not lo montion another section still higher that has stood there for ages. This snow commences to melt about April 15th, and keeps on melling to the The summer, and every drop of this vast body of water goes to waste, running down the rivers into the Sucramento and San Jouquin, and thence on to the Pacific Ocean. Think for a moment what good this water would do. If saved, it would transform every acre of the Sacramento and San Joaquin valleys into hundreds of thousands of small farms of the most fertile character and beautiful description. We talk about Egpyt and of the Nile, while right here is a country as much whead of that famous hand as the electric light is beyond that of gas. Is it not time that people woke up to these great truths, and began to realize that there is but one Californin, and that she embraces within her limits all that is needed to bring about the grandest state of civilization ever dreamed of even by the most visionsry enthusiast?

If I may be allowed to use the language of the card-player, we hold the ace, king, jack and duce of trumps, and then only make high low, losing the jack and game. Never since the world was created were people the possessors of such a country and such an opportunity, and never did any people seem to appreciate it

If all 1 have to say of the nubounded resources of this State be true, and I can not certainly see how anyone can dispute a word of it who is acquainted with the facts, what a destiny is in store for California, and what a munucle of grandner may she not, one day, reach; and why can not she be made to support fully as large a population as France or England

This, then, is the great chance for the young men of to-day. If they are wise and unibrace il, they will go on with the flood of opulcace. If they spurn it, and coward-like attempt to float with the current, and follow in the ald played nnl growes of the past, their fate will be as positive as that of the Indian.

There is neither good or had lack about the mutter, nothing in fact but cold-blooded, stern, unsympathising logic, which is as susceptible of demonstration as the simple arithmetical proposition that two times two make four,

The Livermore valley appariets have suffered considerable loss the past full and winter from the bee moth. Just now special pains are taken to seonre the fast outpauring new swarms to repair the

ducted an institution in this city for the cure of stuttering and stammering, with most satisfactory success. His system is philosophuml and simple, and is based on the plannest common-sense principles. Excluding reliance on medical aid, it comprises chiefly careful drill of the vocal arguins, and such mental discipline as will contribute to the object. In the first stage of treatment, the subject is not permitted to talk, except to prartice his exercises, and to make such movements in speech as can be guided and observed by the teacher. During this time he is taught to consider himself, not a putient, but a student of speech. In the second stage which is begun when enough has been done in the first, the pupil is enconraged to talk, for practice, at every opportunity, with a "legato" movement (us in music) and a strong accent. In the third stage he is allowed to talk more untitally, but in a studied manuer; and in the fourth stage he is permitted to employ his normal way of speaking, but is by this time relieved from the impediment under which he formerly suffered The psychic part of the treatment, which sims to divert the pupit's mind from himself and his troubles, is the most difficult and, at the same time, the most essential part. The time required for success depends very largely and, in fact, chiefly on the mental constitution of

From this brief description of an effective method of treatment, the parent may gather the useful hint that, to remedy any inciprent tendency to his child to stammer, he should exercise a mild and kind but firm ruling, suppress all irritability of temper, observe for the child all the laws of health, and be careful as to his own manner of Talking and the putterns he may set for the child. By attention to such matters, even the most puskilled muy carrect the evil before the child begins to be conscious that he is a stammerer; and, by a general reeard to such principles as are here land down, the affliction might be wholly removed or its frequency greatly reduced in the course of a generation or two. The statistics collected and preserved by Mr. Spitterlinshow that the stunmering habit is contracted, with only very rare exceptions, between infuncy and ten years of -The Popular Science Monthly [ N. Y. ]

### FRUCT CULTURE.

Fruit trees begin in bear at a very early age in California, peaches often in the second year, and apples in the third year, while a five yearold orchard, well treated, bears a heavy crop, Owing to the dry climate, the many perishable fruits keep longer and travel better than in other countries-California strawberries and cherries stand a week's railroading with but little damage.

The rupid growth and large size of our fruit trees astonish the stranger; an apricol of eightyears old is a large shade tree, and this particplar fruit has given some of the very hest general results, its great delicacy of flavor making it a general favorite for all purposes.

In 1879 a twelve-acre apricot orchard yielded 31,000 pounds of fruit, sold at five cents per pound, clearing a net profit of \$1,200 per acre Bartlett pears have been known to pay a profit of \$3,000 per nere. Peach orchards, in good years, have produced 27,000 pounds per acre. But while those figures are gnoted us representing umbrainble possibilities, let us put our probabilities at much lower figures, which will still leave highly sutisfactory profits. Some kinds of apples and pours often remmn on the trees until December, quite uninjured by frost.

Shipments of fresh fruit last your uncounted to 10,000,000 pounds, and this, in spite of high freights in refrigerator cars and other difficul tirs, is found to be a highty profitable business. There is also arising much competition in haying up productions of orchards by large operators who employ well-trained hands to gather and pack the fruit, and sometimes dry it in the orelard .- Santa Cruz Exchange,

### A LARGE WOOL CLIP.

Mr. C. Nelson sold his spring wood clip last week. From 3, 100 head of sheep he sheared 13,765 pounds of wool, making an average of 4.44 pounds per head, which Mr. Nelson thinks is the largest yield he ever received. The price paid for the wool was twenty cents per pound. Some at our Yala rannity wool-growers have meared better prices than this - Yolo Dynmerat.

# Mr. J. E. Smitterlin has for eight years con-



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20 APRES OF LAND, UNE MILE from Howard's Station, fronting on mant road. Ten as ies of the land under good cultivation, and the balance heavily timbered. Place from the black thought timber on the place to nearly pay for It. Comfortable heavies of the rooms, small chirken house of the rooms, small chirken house and a cornectib. Well was red by manifest springs. Healthy locality, and splendid place for poultry.

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109 Land, romesting of limbs, romesting on the land, rome

\$3, 100. 45 ACRES FINE LAND, NEAR Splendid supply of water; well fenced.

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It is the cheapest and most desirable land now offered in this market, and we court comparison with any other land in the State. Price, with water right and canal in mach quarter snetlen, in subdivisions any sizn,

\$40.00 PER ACRE,

Payable one-fifth eash, balance in unmual installments to suit.

President WENDELt, RANFON will tecture on Prisito county and Its intrauligns for settlement, at a public monthly to be held at 1 modumes, Hall, on Saturday evening, June 23d.

Excursion Train will leave San Francisco on July 5th. Thirds for round trip, good for nine days, ONLY \$7.010.

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BTRAINING WOOD SAW FRAME. The way is strained
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pieces with Meril Bands. With this devise a saw is perfectly and automatically strained at all there. No
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frame. The space in wand saw frames meanly after our
with such devives it beful open, glying the saw greate
capacity for sawing targe sticks of wood, wide planks
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Boards: 10° to with Pacific Saw Mfg Co.'s Extra Order.
Free et and thed, ready to work, each, \$1.50; with the electrocont quality idade, act and life, ready to work, 1.25; with turnoried blade, act and filed, ready to work,

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#### CALIFORNIA MOUNTAIN DAIRIES

The Truckee Republican has the following: It not generally known that the choicest table it will be seen that the future outlook for Petaluna butter used on the Pacific Coast is made in the vicinity of Truckee during the months of June. July, August, and September by dairymen who make limited quantities in the valleys in the spring before moving to their mountain ranges. son why mountain butter possesses such superiority over butter made in the valleys is because of the climate and feed together with the greater skill of the mountain dairymen, make a combination of circumstances more favorable to its successful manufacture than can be found elsewhere on the coast. With these dairymen the manufacture of butter is a profession. The Truckee basin is a dairyman's paradise. The numerous valleys and dales, during the months of June. July, August, September, and October, abound with the choicest native grass, and the dairymen having found this ont, never fail to take advantage of it. As early as the first of June the dairy rancher arrives from Sacramento valley, where he has wintered, bringing his drove of milch cows, his lots of choice pigs, his coops of poultry and herds of culves, and puts his ranch in order for the summer campaign. Squaw valley, Twin valley, Lake valley, Russell valley, Martis ereck, valley, Prosser creek valley, and the numerous small valleys all have their ranches. which, when the season sets in, are occupied by old and experienced littler men, who bring all the modern appliances, in the way of patent churns, improved setting pans, etc. The cows yield a improved setting pans, etc. The cows yield a bountitul supply of pure, rich milk, and grow fat, and their owners prosper. In and about Lake Tahoe are many favorite feeling spots, and there is not a nook or vale but it is known to the dairyman. and occupied. Close to Truckee there are fifteen or twenty dairy farms that each year send to market over 60,000 pounds of the pure article. Sardine valley, Sierra valley, Weher lake range, and the valley of the Little Truckee are all favorite feeding places of the ranchmen, and their cabins and dairice dot the green meadows, and all yield good returns to the durrymen. The butter from these mountain dairtes is esteemed very highly, and always brings an advanced price in the market, By the first of March and the following season the supply is always exhausted, and often advanced orders eat largely into the product of the season. The regular climate and cool nights are great desideratums in butter-making, and combined with the rich properties of the mountain grasses it is no wonder that Truckee butter should ever command a premium. Cheese factories are being talked of, and it is thought the near future will see them in active operation. At present the milk left after the lutter is extracted is fed to the pigs and calves. which, by the time the season closes and the dairy men ready to depart, are ready for market, and-literatly "as fat as page." Most of them are bought up by the local butchers at good prices.

### A GOOD WORD FOR SANTA BARBARA

The following is an extract from an interesting letter, concerning Santa Barbara, written by a steff correspondent of the New York Tribune, who liss been spending several months in that pretty town: The situation of Santa Burbara is almost exactly

the same as that of the towns on the Mediterranean Riviera, Lake Menace, Mentone, San Rame, and niher popular resorts of that famous region. It lies under a ice of a wall of mountain running east and west. The strip of coast slopes gently towards the south, and the bouses look out upon a warm and quiet sea. Owing to the trend of the shore and the protection of a line of islands, the cold ourrents of the Pacific are not felt here. A placid little nook of occan seems to have been provided by nature, where the sun shines rimest always, and the hurly-burly of Irafiic and apeculation is limited. The nearest railway station is 80 miles away, on the other side of the mountains. Once Santa Barbsra had its era of great expectations, like all the other settlements in California; and it built a great many more shops, and "business blocks" thun it had any unit supps, and business blooks than k has dy use for; a theatre which is hardly ever opened, and n big college, from which the last pupil long ago departed. But the fever soon burned itself ont; there was really so little for it to feed upon. period of steady industry and moderate thrift has tillowed. Little by little the community is growing up to the capacity of its premature building. and looking forward to the time when it shall have a railway, and vines shalt cover the footbills, and the bountiful soil shall show its capacity. while, there are sheep, and cuttle, and fields of grain, apricots are raised in large quantilies, for eanning; and one ranch is famous for the production of olive oil. The orange groves that I bave seem are young, and do not look healthy. Pra-visions, of various kinds, are brought by steamer, visions, of various Rulls, are brought by stennier, from other parts of the coast. A large proportion of the inhabitants are people of lessure, elegant or otherwise. Their lives are marked by case, simplicity and content—which are not the characteristic latence of College, but tie virtues of California, but are comfortable qualifor health, and, having found it, they have resolved to stay for life, farming, or trading, or following whatever other calling they may be fit for.

### A PROSPEROUS TOWN,

From the following, taken from the Courier, is unusually bright:

Every store and place of business is occupied. and nearly every dwelling desirable for a residence rented. We hear considerable inquiry for property both in town and the surrounding country, and several sales have recently been made at fair prices. We have the hest market for all kinds of preduce in the Stale onlaide of Ban Francisco. Owing in our linving both water and railroad communication having both water and rainton versions are so low with the outside world, our freights are so low that our merchants pay, for all kinds of products, only a fruction less than the city prices. They pay cash for all products offered, and the seller can buy wherever he pleases. There is no harter such as is usual in couplry towns. Our death rate for the last twenty years will show that there is no healthier lication in the State. Our public and private schools cannot be surpassed anywhere. Our land is tertile, and will produce almost every variety of Our sensons are sure, and we have never failed in the dryest years to raise a crop. Owing to a variety of productions, we have a stream of gold that ebbs and flows from one and of the year to the other as regular as the ocean tides. In the full, winter, and early spring, the fruit, grain, hay, potatoes, wool, wine, ponttry, eggs, etc., keep the market lively, and during summer we have butter. cheese, hay, ealves, stock, fruit, eggs, poultry, and other things, all bringing in a constant stream of money. Our merchants sell goods so near San Francisco prices that larmers can do as well here as there. We have the best of mountain water and an abundance of it. Our people are peaceable and law-abiding, and yearly becoming more indepen dent, as the improvements about their homes will show. Petuluma is a good place for almost say kind of manufacturers. Land is reasonable, and can be purchased convenient to navigation in large or small lots. Our natural drainage is unusually good. We have fresh breezes from the coast good. We have fresh breezea from the coast 18 miles away, throughout the senson, and no ma-laria anywhere in the surrounding country. Our seenery of mountain and valley is not surpassed by any town on this Coast. Standing on the bill, and not far from the center of our city, we have a fine new of all the prominent features of the country, from San Pabio bay on the south to the mountains along Russian river and about Clear lake on the north, and from Mount St. Helena and the Napa and Suisun mountains on the east to the Onast hills on the west. We cannot, in a newspaper article, tell half of our advantages. All we ask of persons seeking bomes or a location for manufacturing purposes, is to come and see for themselves before locating elsewhere

### SILVER MINING IN INTO COUNTY.

In speaking of some of the silver mines of layer and of its encouraging outlook, the Independent

A number of miners and workmon in the employ of the Argus Range Silver Mining Company, at State Range, are now here and at Lone Pine. A big pay-day has occurred, in which the Company settled up oll claims for labor and materials to date. The mill is close to completion, and the workmanship is reported to be first-class in every respect. Good miners, well acquainted with the properties, say that there are about 1,000 tons of milling ore on the dnmps ready for working. Altogether, it is the most encouraging ontlook for a blg operation which this county has ever exper-

Mr. Thompson has recently made some new discoveries in the old Cuervo mine, which is situated but a short distance to the north of and on the Defiance belt. By running a burnel 250 feet in length, he cut the ledge at the depth of 250 feet, encountering an entirely different class of ore from what he found on the surface, and in paying quantities. The ore is a black, brittle sulphuret of silver, carrying zinc, being almost identical in character with that of the Indian Queen mine near Benton. The assay value is from \$300 to \$400 per ton, and would be pronounced a profitable base milling ore, to be worked by a roasting or milling process. This would lead one to suppose that in sinking upon the Deflance or any other mine in that belt, a change of ore will take place, and as the buser ores disappear rich sulphurets will take their

### SHEEP INDUSTRY.

The Sun Luis Obispo Tribune says that the sheep-growing interest of San Luis Obispo county is nu important one, and is growing rapidly is shown very clearly by the figures of the Southern Coast Railroad. That road extends now from Port Harford to Los Alamos, a distance of 64 miles, and yet it is likely that between 20,000 and 30,000 bend of sheep will be guthered along that area within the next two or three months, and shipped to Sau Franersco by the way of Port Hanfard. We have been informed that there are now at Los Alamos and Nipomo some 4,000 head awaiting

#### DOME MANUFACTURES

All history will vindicate the statements that exclusively infuling and agricultural countries are usually poor and dependent, that the production of the raw naterial from the fields, forests, or mines is not the productive wealth that builds up towns and cities, on least the kind that most greatly benefits the trading and wage-receiving classes. It has a kind of wealth which stands in pools, and does not spread out over the whole country and make the witherness and sollinry places glad, and the disert rejoice and belisson as thy places glad, and the disert rejoice and belisson as the country and make the witherness and sollinry places glad, and the disert rejoice and belisson as the class, and material liner sto of the country so thoroughly as to raise all parts to pulse with the and sells. The rare, bulky, heavy material goes almost as flow raics, and returns as the product of skilled labor, at high cafes. The difference between the price of the we commodities is the loss austained by the non-mannifacturing producer, and no people can claim to be well on the way to the highest prospectly who are rendent to be vegetable dealers and marketers, the producer of raw material, wholly dependent upon the ducer of raw material, whichly dependent upon the capricious and fluctuating prices of the lurgin pur-chasers and manufacturers for the necessibles and com-

whaters and manufacturers for the necessities and con-forts of life.

We simily the future in the light of the past, and who bome manufactures have done for other nations and States, we may safely calculate the yield of or Califor-nia. We need only the example of our English an-cestors. Though England is first known to history by the efforts of the Phonician navigators to obtain the products of ber mines, and although her passural and agricultural wealth chiefly attracted the Roman conquerors, still England near omerged as a distribution power in Europe until she had learned to manufacture her own productions. Then the island became a busy-live of industry and ivealth. England expure an raw undertal, and what is the consequence? The whole had shakes with man thingry, and her sea roost is one long counter, where she trades with the world, buying the could material, and selling the refard, and putting the difference into her pocket. House manufacture has the efforts of the Phoeniclan navigators to obtain the difference thin he r porket. Home immufacture has largely been the cretiperative power of France, Prinsia, and Holland, after being prestrated by long, devastatand Holland, after bring prestrated by long, devasta-ing wars. These countries have stendily grown rich-have money to bus and invest in great public enter-prises—while itissia, whose exports consist rhirdy at the raw material, be one of the poorest nations of Europe, considering her extent and resources. Home-maninfactures made New England, with her thin soil, grantle hills, and rough plinate, rich and self-reliant, ribile the sunsy Soull, will a leftly soil, a delicious elimite, but exporting all she raised, languished in poverty. But the claim of a new irro of prosperity in that fair clime is evidenced by the fact that her capital ls beginning to whiz and whit in her bonus and spindles.

We need only study what the mining products, the We need only shally what the mining products, the coal measures, and a usion of careful agreenture you, bined, have done for the political and material pros-perity of Great Britain to herra where the great secret of thistoria's faince prosperily ites if duly appreciated. There is no Stale in the Union that possesses so many marked advantages for building up a large manifacture. marked advantages for building up a large manufarturing tudustry. We have wond, each, and petroleum in abundance. The out-door laborer rarely suffers from heat or cold. The ice unver pintons the mill-wheels, and the pith to the shop or factory is never blocked with snow. Then nearly all the shiples, which constitute the same material, can be predicted with the greatest cuse, and in the bargest quantities. The sort and ellimite are adapted to an almost endless variety. Anything in the line of wood, grain, wood, cotton, silk, California can produce of the best quality, and as cheen as the most favored country in the world. There is no reason, then, why we may not manufacture, at least four fitties of our present importations, and lay the foundation of an export trade, that will whiten the Facilic with the sails of our commerce.

an export trade, that will whiten the Pacific with the saits of our commerce.

There is already a great demand for our wieders goods, many mills reporting it impossibly to fill their orders, and yet the bulk of the woolerup is still shipped. East. Last year, Chilornia flour went to Great Britain Germany, China, Japan, Central America, Australia Girmany, China, Japan, Central America, Australia British Columbia, Maxico and the Sachie, Islands, and everywhere at good profits to the shippers, and yet, the most of our wheat still goes in the sakes to foreign countries. Now, any portion of this raw miselectal which we can manufacture to export, is just so much added to the wealth and prosperity of the State.

Home manufacture is made England the releast and most powerful nature on the global. Home manufactures made New England the leaster of a mighty republic! And home manufactures may make California the commercial empire of the Pacific Cossi—Pacific Rural Press.

### GOOD PROSPECT AT THE HAUTERY MINE.

The appearance of the Hartery mine has improved decidedly of late, and the ludications are first south level below the drass tunnel. The holgs In that direction is fully tun feet in width, and the crashings taken but remutly by the tributers have been very good. Yesterthy there was a chancap at 30 loads of rocks taken out by Byan & Co., which picided \$42 per band, excluding the sulphurets, of which there were two time. The previous crush-lings were laken but from this level, the first of which yielded \$17, and the second \$26 per load, Another party of tributers have but 10 louds of rock which is equal in appearance to the hest crushing These results are an engineringing that more iributers will some be put in the miline and opera-tions will be prosterred actively, ... Gross Policy

#### PLANTING WAGNUT TREES

We print the fullniving article from the Chicago Tribuse, which is not at all exaggerated; and what is more, the walnut arens to be specially adupted in the Sacrameuto valley. It has a tajt root, and after it once gets strited will stand almost any smooth of drouth. It is the hubit of some people to say that all this is "good enough on paper," but it has worked out all right wherever tried. It costs nothing to try it:
Mr. C. B. Wilson drove me out to his farm to-day

Art. C. B. When grove lie out to his farm ti-day to see some black walnut frees. Said he: "These trees were plinted from the seed trenty years ago. I saw them planted." I arrasured them, and found they were sixteen turings through. They would saw into humber a foot of clear black walnut boards said they large her to have a valence by the seed they large her to the seed to the and then have the top, limbs, and stoned bift. The stump itself would sell in day for five dollars, to be sured into veneros. The hoards would be wurth \$30. "What could you sell those trees for to imm-bernen as they slund?" I asked. "I could sell them for \$25 per tree, and ten years from non they will be worth \$50." From these facts I came they will be worth \$50." From these facts I came to this conclusion: A black walnut tree will pay \$1.25 per year for the first twenty years, A thous d of their will pay \$1,250 per year. Now, every Himois farmer has it in his power to make more money off a row of black realing trees around his farm than he can make on his farm it sowed in trheat. How can be do it? This way: A farm of 160 acres would be 10,560 feet in circumference. Now, plant walnut trees four feet apart all around it, and you will have 2,640 trees, which will worth \$25 apiece in 25 years.

Again, a farmer can set all his slonghs, low places, and all hog-postures in black walnuts. Two thousand handsome walnut trees, growing on a farm, worth \$25 in brenty years, would not interfarm, worth \$25 in brenty years, would not inter-fere with the tarm at all. Orange rationg in Florala will not pay built so well as black walnut russing in Illinois, "How should the black walnut be planted?" I usked Mr. Bates, a mirroryman at Whitehall, Ill. "The insiest way" be said, "is to strike the ground with a common hominer in the fall, make a round hole two inches they, and drop the walnut in. It will cover use it with leaves and dust. The debris over the kernel will be so light that the spront will have in trouble in flicting its way unt," "What would you do after they come up in the spring?" "I'd go sround and pur a shovelful of sawdnst, barbark, grain chuff, or straw around each - prout. This will keep the roots damp, and kill the gives or with around the conts. bor could plant 1 000 trans in a day in this manner. I'd plant them twee as thick as I needed them, and then thin them out Culosa Sizii.

### THE PUSSIBILITIES OF FURTY ACRES.

"What can be those with 40 acres" was the title of an article pritten for the Gazette same time ago The writer, after quoting the income of soveral fruit-grouers, in establish a fair average, says;

Now let us return to our 40-mer lot. Reserve two acres for a house, garden, chicken yard, and the merssary one-buildings. Set out twenty acres in grapes, and decide the remaining eighteen neces equally between oranges and offices,

1. At the rid of three years the grapes will bring \$1,000 if sold rare to the wine makers, and at least \$4,000 if turned into inteins, at a profit of \$200 an acre, which is about tuenty per cent, lower than in case (a) mentioned above, and 54 per cent, less three sold in the sold i than the profit in case (b).

2. At the rind of three years the olives will

be bearing largely, and bringing in a profit of not less than \$500 mi arre, which, in min years, the trees being then in Infl bearing, will be at least \$1,000 an avre.

3. At the end of ten years-or at most twelvethe oranges will clear \$500 an acre. Combining these profits ne hare;

Raisins, 20 acres, (6) \$ 200 per acre . \$ \$ 4000 Ohves, 9 " (6) 1,000 " . 9,000 Oranges, 9 " (6) 500 " . 4,500

This total is made by taking amounts per acre very much less than the actual receipts of welf-known persons—fully one half has in the case of possible ill-surress, let us reduce the estimate state further by one-third, and we shall still have a total of \$11,666 as the average annual profit from and after the tenth, ur at least the twelfth year.

At the full rate of profit made in case (b), the re-

turn to the third year from the trivity acres of grapes would be \$7,100, and taking the law rate of \$200 an aric, it would be \$4,000, or new and onehalf times the amount spont in purrhosing the whole 40 arres, supposing the price to be \$75 nn arre.

n hole 40 arres, supposing the price to be stome arre-Taking the orange and three prifts at the rate given by the receipts of the gentlemen quoted, we have, at the ond of the above purpol, an annual

Baisins, 29 Olives 3 Oranges, 1	9 11	fil.	\$ 370 per acre 2,000 *** 1,000 ***		\$ 7 400 18 000 . 0,000
Total					William Ann

If this were regarded as interest at the rate of ten Subscribe for Tits Resources by California. sum of \$344,000.— Inabout Gazette.

#### FHEIT VS. WHEAT

Indicatums point to the conclusion that the time is not far distant when the whole of the agriculthral districts of Southern California will be almost entirely given up to the cultivation of fruits and the vitie. This industry is certain to supercede the production of wheat, for the sample re that wherever tried it is found more profitable. The raising of wheat is yearly becoming less and less remainerative; indeed, only to the event of failure of crops in large producing districts, or increased demands, created by war, or some like unexpected cause, wheat cultivators in ceive but little in the shape of profitable return for their labor. The climate and soil of the southern half of this State, and in some of the more nurthern districts as well, is purhenlarly favorable to the successful entitivation of all classes of fruits. In time, we beof California agriculturists. - Sun Renita Admine

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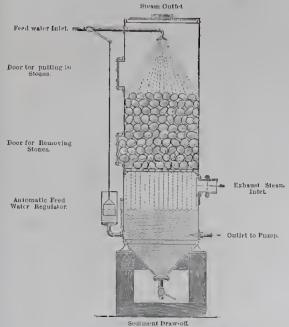
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### A VISCO TO RESDICANDS

During the recent Press Exentsno to Southern California, the writer and several others took occasion to visit San Bernardino and the Redlinds Colony. The tract known as Redlam's consists of about 2,000 acres, and derives its name from the character of its soil. Situated at the base of a spurof the Sierra Nevadas, with a gentle slope westward, at a general elevation of several hundred feet above the San Bernardino valley, the had is within the worm belt, and, of course, comparatively tree from frost. This fact was fully exempli-fled during the cold and frosty weather of January and February last. While the frost was very severe and did much damage in some portions of that region the Redlands were almost entirely free from such a visit. The sail is remarkably well calculated for the cultivation of the orange, grape,

Its elevation, moreover, rembers it specially destrable us a place of residence. This tract is not only favored with the general healthtulness which prevails everywhere along the mess lauds which flank the Sterra Madro, but it is also especially desirable from the magnificent outlink which it affords over the valley of San Bernardino, and for 40 miles down San Gabriel valley. Even the famed Sietra Madre VIIIa has no advantage in this respect over the hotel at Rediands, from the windows of which we enjoyed one of the finest prospects of mountain, valley and vineyard which it was ever our fortune to look out upou.

While there we took occasion to look around generally upon the varied improvements going on. We found over 70 owners upon the tract, nearly all of whom were making improvements, either in pluwing, planting or building. The land is mostly held in small tracts for homesomis; although there are quite a number of more extensive tracts being improved. About 500 acres will be planted in trees and vineyards the present year. The water system is, to all appearances, most perfectly and permanently constructed, and operated upon a plan highly tavorable to land purchasers, the water rights being conveyed with the land; a certain unmber of inches of water accompanying a given number of acres of land. A very appearor class of purchasers are going into the artifement, from which fact important social advantages will be derived.

Doc yest ago there were but three houses in Red lands; loday there are twenty already established, and a railroad station with a side track hald without two and a half miles of the center of the settlement. A fine church and school have also been erected near by, and a lephone connections have heen made with Sau Bernarchno, Colton, Enwands and Luguma. It would be difficult to find another such instance of rapid improvement within the bounds of any agricultural district in the State .-Cor. Rural Press

### ONE SUCCESS WITH BEET SUGAR.

A writer in the New York Teilbung, who recently visited this State, turnishes that journal with the following, concerning the heet sugar interest:

It is gratifying, smong the wrick and rain of attempted beet sugar enterprises in the United States to know that one has paul a profit for three consecutive years, and shows no sign of exhausted vitality. The Alvarido factory of the Standard Company, in California, made, during the first sea son, ending May, 1,391,688 pounds of refined sugar, 24,167 pounds of crude, and 111,794 gallans of motions truin 11 229 91 tons of beets, or more than experient, of the weight of the hesterin engar, in addition to the unclasses. The expenses were \$112.681, and the receipts \$159.617, burning a confortable profit of \$14,996. This result was obtamed, notwithstanding the fact that the modubrought ordy about eight cents per gallon, which, with investment in smitable machinery, might have been utilized at a much larger profit. Our Main e friends would not grow beets at five dollars p tun, but these cost only an average of \$4.23. The average yield was about fifteen tons per acre, worth \$63.45. The heaviest items of expense were: lasts, \$47,552; coal, \$29,867; lather, \$18,932. About two-fifths of the entire cost was for beets. A builer explosion incressed expenses \$4,000; bone, control, fime, acid, light, freight storage, drawage, commissinn, interest, etc., made up the remainder. A single success continued for five years, will be haely to give un impetus to the beet sugar move-ment which no subsiquent failure can stay.

### ABOUT ORANGE TICKES

While in Riverside, we were shown what is supposed to be the largest orange tree in Southequ California. The tree is on Mr. Beers' place, is tifteen years old, about eight inches in diameter and eighteen feet high. At pres ont, it is louded with a figo crop of 4,000 orningos, which, it the prevailing prices, is worth over \$70. A valuable tree is that. We also gathered from his place, well preserved tipe gropes, which had returned their lorus and flavor in a remarkable manner. - San Bernar-

#### MOUNTAIN RESERVOIRS.

In speaking of the necessity and possibility of the construction of mountain reservoirs for the storage of water for purposes of irrigation, the Pronoun Times has the following:

It is self-ovulent that Southern California must somer or later adopt some such menus as will place the agricultural and hortzenltural industries in entire independence of the numbel rainfulf. depend to irrigation upon the flowing streams is to pla s the productive interests of the country upon a very uncertain basis. In the first place, the mount of water during the driest months of the summer is, so a rule, mad qualit; and in the second place, some of the most extensive and firtile por-tions of the sgricultural territory is not situated so as to be subject to irrigation from such streams. The day is not far distant when some method uill be devised for supplying those large areas of tertile lands with water necessary for irrigation. The practically way is by the construction of storage reservoirs in the monutums. Their practicability has been thoroughly demonstrated in numerous instances, and they are no longer an experiment. In Mexico they are numerous and have been in use for hundreds of years. Ranches of immense ex-tent are watered entirely by this means and the supply is never exhausted. In many cases, the water from them is canducted through cement ditches a distance of a bundted miles or more to aupply large tructs of otherwise valueless lands. supply large truets of otherwise valuatess lands. In our own State we cite the Instance of the reservoir near the city of Vallejo, which is constructed in a large basin in the hills near that city, and from which it valley of large extent, Tyang below, receives its entire supply; the city of Vallejo receives all its water from the same source as does also Mare Is-land and all the public withs thereon situated, and a scarity of water has never been reported. In the great majority of localities, in our news country at least, the expense attached to the construction of these storage reservoirs would be but a tritle compared to the immense hencits that would result therefrom. We could cite to numerous places where the expenditure of a few thousand dollars would make an amount of water sufficient for all the lands for miles around. We are satisfied that if the amount of money which has been spent in this county, in the last few years, in trying to obinlin a large supply of water from a small stream, and in higation over prior water rights, bad been expended in the construction of storage reservous; there would not be an acre of agricultural land in the county but could be flooded with water. We regard the water question as one of easy solution if it is only taken hold of in the right manner, and the undertaking is not an great as many are inclined

### TUOLUMNE COUNTY'S FRUIT INTER-

An old cilizen, who is thoroughly acquainted with the productive capacity of the sull of this county, writes as follows to the Independent;

There is a noticeable feature in one of the branches of fariumg in this county, which is rapidly taking the lead of all the different branches pursued, and that is the cultivation of fruit for which the soil is much better adapted them to the cultivation son is muon netter adapted than to the cultivation of cereals, or any other farm production, as has been thoroughly demonstrated in the past; therefore, the reason why taimers are turning their attention more particularly to this branch is, it promises, in the near future, better returns, which prinnings, in the open tuture, octor returns, which may be written as a well-established fact. It remains to be seen if, from the close observations on which we base our predictions, we have miscal-culated the seal of importance it hears in relation to other branches. It is to be noticed throughout the county that the farmers are beginning to realize the impuriance of this growing industry, judging from the new orchards that are springing up, and the renewing of old orchards with the choicest varie 1 s Viniculture is also being revived. Vineyards which have been sadly neglected in years just, are now receiving proper attention from the vincenturist. Yet, withink, what is the Truis interest of this county, at the present time, compared to what it will rank in that particular at no distinct day? In making a rough estimate, we find there over 200,000 acres of forest land embraced in the boundaries of this county which is known to be better adapted in its contracter -- in fact, the best in the State to the production of semi-tropical finite, than nine-tenths of the lind at present under cultivation (mening orchards and vineyards); and there are, of orchards and vineyards); and there are, of orchards and vineyards. not exceeding 10,000 acres to the county. Thus, it may be readily seen, the advantages the county There is no offers in this one industry alone. There is no argument that can be produced that will disprove the above statement.

### HARVEST HANDS.

The formers, says the Yola Democrat, are alrendy beginning to express fems of a lack of lucvest hands this year. The about crop of California is thought to be in excess of his year, and the supply of labor is not as great as it was then.

#### GOOD TIMES AREAD.

In speaking of the good times, in the near future, a writer in the Butte Breand recently smid:

The people of California, and especially those in the northern part, have every reason to book alread for good times. The late rains have insured abundant crops, and good crops this full can not foil to bring good prices. Every pound of California price to the farmer. The fruit crop, which last wheat and burley will return more than an ordning. your was one-third in rathe to the about crop, will be this year the hearpest ever known. The mesent low rates on the S. P. R. R. for fruits, particularly the citrus fruits, open an immense market for all the southern part of the State can produce. This learns us free, in the murthern part, to grow large quantities of citrus fruits without four of excessive competition. Whenever the California and Ores gon Railread is completed no will have a good market for any surplus we may miss. Our wines are such year attracting more attention, and bidfair to stand first in the world within the next ton years. California silk is rapidly coming into notice, and will some day be a great undustry with Land is increasing in value each year, and will increase still more rapidly a hear just assessments compet men, mening large tracts, to pay a fair tax on their land. We hope to see this the case during the present year. Reuts have gone up nearly ten per cent, in San Francisco, and that is a good indication of the presperity of the State, Not less than 25,000 risitors will come here from the East this season, and allowing each one to spend only \$50, ore have \$1,250,000 bft in the State. These visitors will do more than bave money. Some of them will settle here; most of money. Some or them trin sottle meet most of them will have much to say, on their return East, of our climate, our soil, our productions and our room for millions of settlers. These will lut act as an advance guard of the hundreds of thousands that will come here to be permanent residents. Mines of coal, clay and from are being opened and worked, and these are mines that will not be exhausted in hundreds of years; will do no dunning and will cause no litigation. To us overything looks farorable for California. We can see no reason why our citizens should sock other States for houres. Within the next ten years we believe the people of Northern California, and respecially those in the Sacramento valley, will realize that we have the garden spot of the world for a home.

### MODOC COUNTY.

There are many people living in the older settled portions of California arho, although frugal and industrious, cannot in the nature of things ever expeet to own an acre of hand so long as they remain where they are; a farm is within reach of the wealthy only. Almost daily me receive betters of inquiry from those who wish to seeme farms and homes. It would be unfair to deceive these people; whatever we have to say in regard to Modoc, non or

hereafter, will always be the uncarnished truth. There is a large area of Government land (open for settlement) in Modoc county and the northern portion of Lassen county. In Hotspring and Sur-prise, and particularly in Goose bake and Big Valleys there is Government land which would yield good crops. Those who have exhinisted their homestead and pre-emption rights can still avail themselves of the Timber Culture Act. It does not pay to ship grain to the lower country, but a good home market is assured. The average price for wheat and barley is 1½ cents per pound-present price, 2 cents. All kind of live stock is raised at small expense and linds a ready side. Stock usually requires some buy during a part of the winter, but not always. Modoc has the best summer range in the world (this is not extraragant language); plenty of grass and plenty of mater. This is not a tropical climite; those irlio desire to embark in the orange and binimus business will do well to keep clear of Modoc. We usually here saw in minter and some cold months. Our minters are much milder than in thic, Illinois or Mis souri. We know of no climate more healthy than this. Taxes in Modec county are 2 per cent. We have good schools and good surpity. There is no better place in America for an industrious non to beats than in Modoc county, -. 1din Argus.

### FLOWERING PALM.

Mr. J. W. Gillette has a pulm tree in his yard on Temple street which is a horticultural contesty. He planted it about seven years upo, and the tree is already of good size and in full blossom. For a pulm tree of this variety to blossom when seven years oblis something unleard of before, and praxies our local bottonets and nurserymen. It may be that the old legend that the man who plants a plan tree will never ent of its fruits, is to be done may with in the "glorious chimate of Culiforny."-Los Angeles Times.

#### LIMA HEANS AS A CROP.

The following, taken from the American Agrientherist, will be of interest to Californius :

The hims, the most popular hear among must tenrs and market gardners, is slow in finding its may into the gardens of farmers. The dry beans soll for several dollars a bashel, and the market has nover been adequately supplied. Lima beaus are easily mised, and yield as homitifully as most other pole beaus; and they continue to blossom and hear until killed by the frost. We know of no remain why they can not be made a speciality, like hope and tobacco, and grown on a large scale. They would require better soil mol treatment than the common field lenn, but as the page is three times greater, these could neel be afforded. A rich grarelly or smdy loan suits them best, and the phosphitic minures are well adapted to them. the this kind of sail we have not found those to run too much to rices, even with heavy dressings of compost perpared from muck and stable number The rine is a strong grower, and requires abundant morrishment. The posts are formed quite thickly from the top to the bottom of the poles. They must the full benefit of the sun, and the rears running north and south should be four feet apart, and the hills four feet quert in the row. In planting we prefer to put the eye downwards, and not more than one includeep. The first of dime is early enough for this latitude, It needs frequent on tiration, until the rines shade the ground. This crop is well suited to farmers remote from citos and markets. The market gurdner will not grow Lima beins to sell dry, because they are wroth more in the green state, and he can soll all he can ruise. But the farmer, however remote from the city, can market his mhole crop in the minter, and be well publ for his labor.

#### A PREDICTION.

The San Bernardino Times predicts that within the next ten years it will be very difficult to buy any desirable leads with mater suitable for orange growing, in Southern Colliforma, for less than We believe the Times to be cor-\$1,000 per nere. reet in its prophecy. Many persons think that the irrigable fruit lands of the Smith Ann ralley are high noo, but in much besthun ten years from now they will see a vost enhancement in price. Look at prices of orchard hard in Florida, from \$1,000 to \$3,000 per arre, and that in a climate that bears no comparison to come for healthfulness. There are no stringer in our favored sec tion, from which the deadly musuum is constantly acising, polluting the air, and being inhabed into the lungs of our people, as is undoubtedly the case in Florida. We have a section unsurpassed for healthfulness, and its adaptability for the production of fruits of all kinds, that attempts hare bren made to sultirate, has liren sufficiently demonstrated.

We can ruse better oranges thun the Florida product, and one soil will produce the linest grapes, making raisins equal to if not superior to the Malagas, and irme of body and thror, with age, that cannot be excelled, and which is free from adulteration. Our valley produces as large, fine applies as can be seen in any country, apercots, peaches, pears, prumes, figs, and other fruits in perfection. The English malant does well here, yielding profitable crops upon reaching the age. With our climatic advantages and mac-qualled soil productions it would be strange indeed if lands in this valley did not appreciate monderfully.-Santa Ana Times

### ARTESIAN WELLS.

From the Fresno Republican are take the following:

From a citizon of Fresno who risited Tulare City a few days since, we born that there are now about thirty floring crils within a few miles of that town in what is known as the artesian belt. inside of which no attempt to get llowing mater has thus for failed, the week rurying in depth front 360 to 450 feet. A nodl in nor being just down on the farm of Mr. Holmes, about a mile and oneluff from tourn, undomtside of the artesian belt. Property-holders hore subscribed \$1,000 to assist in the experiment. At 650 feet blue clay mas struck, which is considered a good indication, and pt 1205 feet a strate of libre smal and grarel ous struck, which is considered a sure indication of flowing water at the bottom of the sand strate. The well-borers felt couldent that they mould find artesian water in a rocy short time. The estab-lishment of the fact that artesian noter can be had here would be worth many thousand dallars to the

### LITTLE CHUNK,

A line chank was shown us the other day. The specimen was from the Rough Dumond gravel mine in Chili Gulch, and was worth in the neigh-horhoud of 850. The Rough Diamond continues to minutain its requitation as a gold-producing Subscribe of The Resources of Camponnia, Connected Chronicle.



BROAD GAUGE,

### Summer Arrangement.

Commencing Wednesday, April 18, 1883, And until further notice, Passenger Trains will leave from, and arrive at San Francisco Passenger Depot (Townsend St., between 3d and 4th streets) as follows

B, F,	DESTINATION.	8. 1.
8:30 A. M \$ 9:30 A. M 10:40 A. M. * 3:30 P. M. 4:25 P. M. 6:30 P. M. \$11 15 P. M.	and Menio Park	0:40 A PR   8 10 A, 31   9:01 A, 32   9:02 A, 34   4:10 P, 34   1:40 P, 34   1:50 P, 34   1:50 P, 34
8(80 A, M. 10:40 A. M. * 3:30 P. M 4:25 P. M.	.Santa Clara, San Jose and.	9:01 a M   *10:02 a m   *3:30 p m   6:00 p m   f 8 15 p m
10.10 A M. 4 320 P. M.		6:00 P. M
10(40 A M * 3(30 P M	. Hollisher and Tres Pinos	*10 02 P. M   0:00 P. M
10:40 A M * 3:30 P. M	Watson ville, Camp Goodall, Apton, New Brighton, Suquel (Camp Capitola) and Santa Cruz	910:02 A. M 6:00 P. M
10:40 A. M.	Soledad and Way Stations	[   Ч:00 г. м
t 7: HLA. M	Menterry and Santa Cruz   Sunday Lecursion)	t 843 P M
*Sundays	excepted, tSmaleys anty, t	Theotre train

Stage connections are maile with the to 40 Å at Train, except Pascabero Stages who San Maho, and Pacerin Commiss Stages who Santh Place while he connect with Salo A, at Train.

SPECIAL BOUND-THIP TICKETS - At Reduced Rates - to Posculum, Mundercy, Anthon Suqued and Santa Cruz; also, to Offroy, Paradau and Papo Holiba Springs

Cruz; also, Io Gliroy, Paradsu and Pano Holiba Springs

EXCURSION TICKETS - Solid Sathindays and on Sun
day mornings—good to redom on Monday-to-Santa
Clana or Sun do s. \$2.50; to Gliror, \$400- in Mainbrey
or Santa Cruz, \$510, and to principal points between San
Francisco and San dose also totalized Holibary, \$6.00,
SENDAY EXCHREDION "IGEETS — To ruber Monlerry or Santa Cruz, and relum, \$3.00.

Ticket Orriczs.—Passenger Depot Townsend street,
and No. 2 New Monigomery street, Palace Hotel.

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ARABIU	11.1	Sutar	da), Septembér	151 h.
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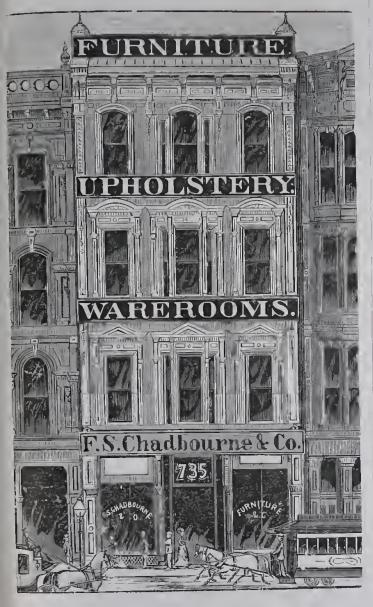
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CORNER FIRST AND YAMHILL STREETS, PORTLAND, OREGON

To the initial reason of the initial the initial reason of the initial reason. The cultivation of this tree would doubtless proce a paying irrestment to the famors of Southern Chiffennia,—Los Angeles Times,

A new ditch, which has been in progress struction for sororal months from Quaker Hill to the Torm Talk ridge, is non-completed. receiving reservou has been built at terminus of the ditch, which encloses twenty acres of ground, and when filled, water will be at a doubt of twenty feet. Discharge into it will be 900 inches per dien. Location of reservoir is high enough to supply every mine in Grass Valley district with water with which to run their pumping, hoisting and milling machinery. Water can be conveyed by literal ditches to Puion, Ophir or Oshorne Hills, although most of the mines of the district have a lower elevation. The fall from reservoir to blake anne is 546 feet, but the company will build a reservoir of their own a little before the large resperon. Engagements have been made so for to supply enter power to Idaho mine in this district, and Marchie and Sherman arimes in Navada district; but the South Yitha Company will be prepured to contract to furnish all other companies that may wish to use this power, and there probability that all large companies will be quick to avoil themselves of it, as it will be so much changer than the use of steam, and will cause such a reduction in expenditure that the advantage can not be overlacked. The outcome of the introduction of this motor can not full to be of the first importance to the Grass Valley and Neveda mining districts, as it will encourage the prospecting and development of quietz lodes containing lon grade ores, which heretofore have not been pro-Stable at the custom rates for milling and the of raising the one by stemn machinery. very reason to believe that the introduction of this rater power is going to bring about a recolution in quartz mining here that will be if incalentable benefit to the business and to the promotion of the general prosperity. Grass Valley Carian.

#### GROWTH HE RIVERSIDE.

The following is the closing portion of an essay rend by Mr. Gercelon, of Bireroide, during the progress of the Riverside Citrus Fair:

Those who come to Riverside to-day have much to say about the high price of lands, and quote the \$25 per more of ten years since, and wish they had that chance instead of having to pay \$1,000 to \$1,500 per acre to-day for improved places. limps such persons do not replize what it was to come here for away from mone pringleges and to come here analy one many promething near, and fullures and disappointments. Look at some of our old places to-day. Many vacancies and young trees show where disease, mistakes, and changes had to be made after years of ear, and lessons which cost the proneer money and linher. I hardly think there is much choice between \$300 on aero tooday, and 825 in 1873. The present Riverside is The Biverside of 1873 had many doubts; even in 1875 many lest both in her and left for other fields. Those who have stond by the enterprise in its weakness have been remarded as they ought to be, in receiving fair prices for their improved lands. We are all looking hopefully forward to the time when we shall, after so many efforts in different directions, fully decide for a hat on limbs are lest adapted, and what will pay lest as an irrestment. It is my lage, Mr. Chairman, that we have fully reached that position, and that now and horeafter no shall not be forged to make any more changes because of brish diridends.

### A DAIRY REGION.

Southern California is fast coming into prom-mence as a dairy region. The grass crop is in any country are of the most important products of the soil. In a densely populated country like England, it is the most valuable crop that grows out of the ground. Choose, butter, and milk are each grawing in favor as articles of diet, the first being

ne most economical of all things used as food.
There are in this and adjoining counties many There are in the anni nopuling courses many hands of med-bard cuttle. Some of our dersey stock will compare furorably with that of my country. It is more a real-settled fact that poor stock does not pay, that blood will tell in milk-beef, or mutton, as it does in all else, "Los An,

### PECAN TREES

A Times reporter was shown two peems trees yesterday, by a carriage and magon manufacturer, brought in by a furner living a few males south of the city, to test their magon materni qualities. Ther are ten years old, are nine inches in di-anacter, and have yielded two crops of ints. It is estimited that one acce of ton-year-old trees would laring a revolute of at least \$200, as carriage med rugon material, asole from the culic of the units.

### A LAND OF HOMES

An enthusastic resident of this city, whose hair is not yet touched with gray, remarked in our hearing the other day, that he expected to live to see the lime when Los Angeles country from the mountains to the sea, would be dotted with small homesteads of a few acres. He contends that Lor Angeles valley, which embraced at least 1,200 square miles, though a territory of considerable dimensions, is small as compared with the larg extent of country from which will come people who will desire to secure a home in this semi-trapical region. Following out the suggestion, we lind that there is torritory enough toullow 76,800 homesteads of ten meres each. Now, say the oc-cuponts of each of these tenence tracts number lire, we should have a great total of 384,000 people. Then, there are the residents of the towns. They would easily swell the lignres to 500,000. It mny he that the enthusiastic gentleman alladed to abore has made the time too short for this grand result; yet, if he lires a half century he may see predictions verified. The great tide of immigration at present is towards the Northwest. But thas comptropic region is peculiarly fitted for small places, each of which is enpublic of sustaining a family. And its climate will cause it to be sought ofter by people of fortime who are not seeking to recurrentate money, but are only limiting for a locality that is especially pleasant for mention and those who would spend their last days unricht the most genul surroundings. This, as we have said, is pur excellence a country for homes. Lands will continue to grow in raine until they will reach a high figure per sere, which will have the effect subjecting the whole to small autolivision When that time shall have arrived, the seems will be one of wonderful beauty, and the aggregate woulth of the country will be almost falorious, Angeles Repeets.

### A FAMOUS ORANGE GROVE.

The editor of the  $Nvw/Agc_i$  of this city, in the course of his correspondence from Southern Cali-fornia, thus speaks of the Wolfskill orange orchard in Los Angeles country: We routed the well-known orange grove and fruitery of Wolfskill finus, which, for many years, has been the pride and number of los Angeles. Situated within a mile of the town, it is risited by thousands an-nually. Formerly it was celebrated for grapes and wines, but more recently for its wonderful productiveness in oranges, lemons, and limes. A drive through the aromies laden with trees bearing golden fruit is a rare trent indeed.

This entire section of country is a purfect garden spot; and only since the introduction of water through ditches, for prigoting purposes, has it become appreciated. The Sun Gabriel and Pasa-dean locations, through this means, have been ninde to bloom at all seasons, and are now the choicest of homesteads, communiding the largest vulnes in the ricinity.

### EVERGREEN MILLEY.

Extraordinary things, apparently on good authority, are said about this new forage plant, evergreen millet. The seed resembles broom corn, which and produces a blade, as nearly as tre can understand, like coarse grass but tember and anking good lay. Duce started it is said to grow on dry sails and in hot climates, and can be cut several times like affalfo or can be pastured, and does not bloot stock as alfalfa does; thou its roots are many and matertions, fine for the logs to root nmong, because when bitten off each root starts again at each joint or eya. We received some seed from Prof. Sanders, of Sanders P. Ct. Fresno countr, and sowed it nearly a month ago in very grarolly haid and find some of it coming up begraviny mur and and some of it coming up of fore the rain. Thoseed is ruther hard to start hut, onco started, propagation by roots is very easy. It noturally spreads rapidly. Our formers should all try at least a little of it. -Lournoc Record.

### THE GROWTH OF THE NUT PINE.

We find the following, by John Taylor, on old resident of Thodinine county, in the Eucal Press: We note in your last pone somothing concerning Boods and dounded hillsales. In California our hills our naver besendenabled if I our not deladed in that belief. I have been fiving among the nat pures for 34 years. In that time I have seen the old tross ent down for charcoal, etc., and for every treeso ent down half a dozen young pures have spring up, and attended goodly proportions. If a lover of nature over to coat our foot hills, he would find delightful groves of young pines, and the hill-sules all corored by a hyuriant and healthy growth. smooth conservery a neutrant out neather growth. I should judge the ago of a unit pune to range from 40 to 80 years. The old trees are grodually drug off, rour by year, so use can judge of the years grouth from many years observation of their riso

THE RESOURCES OF CALIFORNIA is the best parpur to send to your friends abroad,

### THE BEST FRUIT SECTION.

Our State is famous the world over for her lmmense production of gold; in the growing of cereals she ranks with the forement; that she is to achieve even grander results in the production of Mining will fruits there is now every ludication. be carried on in some jurts of our State as a paying business for years to come, and the growing of grain in other portions will prove prolitable for all time; but from our valley and foothill lands shall come the harvests of fruit that shall mid to us w wealth of which early Cultforniaus never dreamed a wealth of increasing value, the extent of which can only find a limit in the capability of industrious men and women. Enough has viready been done to prove the fruit-growing qualities of our soil, Too much fruit can not be raised. All fruit growers of intelligence hants that as yet the local supply has vever exceeded the home demand, in reality, and that as our means of transportation increase so will the demands of our fruit multiply. foreign markets covet our gold, and demand our grain, they certainly cannol afford to slight our We have only to let it be known that the femils. fruit is here, to open up a murket for all that we can possibly produce. A demand for California fruit exists now in the Eastern States that will grow A demand for California with the supply. Yolo, Napa, Los Angeles and Fresno counties have carned a reputation abroad for producing wines equal to those of France, while their raisins rival the famous product of Malaga. Canned fruits such as peaches, apricols, pears, plums and nectarines, produced in this State, are recognized as being equal, if not superior, to any

other found in the markets of the world. It is a matter of record that in 1880 England alone se cured all the exportable surplus of apricots ob-For the past three sea-BODB our rurserymen have been unable to supply the demand for these rees, and the ruling price for this fruit has been from three to five cents per pound, ranuers offering to contract for crops for a period of five years at the former figure grow apracots successfully a location where the chmate and soil are peenliarly adapted to the nuthe fruit. No amount of artificial nourishment can result profitably where the untural demands of the tree are lacking. Some of finest and most productive apricot trees in the State are to be found in Talare county, and the beauty and flavor to any that can be grown else where. Peaches, plums and princes appear to be in their natural home here, while apples, pearetc., grow to almost equal perfection. Or anges, femons and limes have

been successfully grown in this county, and it is over he of note that the branges sent from this county to the Sau Durgo citrus fair in March of this year were awarded the first premium over all competitors, including Los Augeles, Riverside, San Gabri-We do not believe, however, el amil San Diego. that the growing of limes and lemons will prove problable here for the reason that they are not as hardy as the orange.

There are in this county small orchards of peach trees that have violded regularly and heavily for many years past, but the people owning these orchards have been satisfied with baying what fruit their own families could use, and have made no ef-fort to make fruit-raising a business; not realizing that there is more actual profit in a 20-acre orchard than there is in an ordinary year in a grain field of five times the area.

The completion of the new southern route to New Orleans places us within onsy reach of Enropean markets, and we trust will stimulate the residents of our county to energetic efforts at fruit growing. To make a success of the business ave will have to compete with other sections. Californis is rertain to produce large quantities of fruit of first-class quality, and there is only one thing that can prevent her taking the bad in supplying for-eign demands- that is carelessness in preparing it preparing it eign demands—that is derevisedes in probating it for market, Fruit must be thoroughly cured, skillfully packed and louncetly measured. Our fruits are if choice quality. Nature has surround of us with fettility of soil, desirable climate in-fluences, and our people are both industrious and intelligent. What, then, can prevent ours from taking her place in the foremost rank of fruit-growing countles in the State?—Talare Roylater.

### RAILROAD BUILDING IN CALIFORNIA.

A writer in the Argonout, who has traveled extensively in this State, furnishes that journal with the following interesting article:

The following memoranda concerning the rail roads now in progress of construction in California, their length, and the character of the country through which they are being built, is obtained from official sources, and can be relied upon. information is of interest to all, whether in city or country, whether agriculturists or lundiness mon. First comes the extension of the Oregon Branch of the Control Pacific Builroad: (1) The total from Radding to Buley,s (Lower Soda Springs) will be 60 miles in length. The line runs about the Szeramento river, closely following its high-water mark, through a ranyan country, compelling costly con-struction and numerous crossings. The country back from the river rises into broken mountains, covered with brush and of but little value Settlers are few, and engaged only in mining and stock causing. The minimum grade of this section is 7d feet per mile. (21 The road from Bailey's to Berryvale (or Sisson's) will be 13 miles in length. line rises away from the river toward the summit, requiring above Berryvale a steady upgrade of 116 feet per mile. It follows the rast side of the Sacramento canyon. The country is heavily timbered, fir predominating, and has but few inhabitanis. (3) The road from Berryville to Black Bulte Summit will be seven and four-lifths miles, It rans over beach lands, timbeted and comparawith occasional which are cultivated and occupied. Black Butte

end of the survey at Perry's Ranch, will be twentyfire and seven-tenths under in longth. For the first thirteen miles the road runs over rolling plains; the remainder is through a broken fuct-Next is the Winters and Ukinh Railfull country. Next is the Winters and Ukuin Rullrond: From Vacavillo (four miles from Elimina) on the California Pacific Railroudl, the aurvey was commenced toward Clear Lake, distant, at the tiwn of Lakeport, seventy infles. The surrey has been completed forly-two units. It runs through a mountainous country, although there are numerons small valleys suilable for grazing and enlive-Next comes the Narthern Division of the Southern Paritie Bailrond From Sun Prancisco to Soledool the distance is one hundred and forly-three miles. From Soledad to the junction with the main line in Putare valley the road will be one bandred and sixty-one and seven-tenths miles in length. From the junction on the main line to San Francisco, via Soledol, the illatonce is three hundred and four will six benths index—via Martinez two hundred and umety-one and four-tenths The proposed roud from Subulal miles. function with the main line in Telare valley will run southerly for about sixty-four miles up the valley of the Sallune river. This valley contains some good agricultural land, with high hills on each side, affording pasturage. The line then turns eastward up the valley of the Estralla and Sau Juan creeks, crossing the coast range of mountains at an elevation of over seventeen hundred feet into the Tulare valley, across which it will run easterly for about forty-serven miles to the junction with the main line. South of Tulare lake the coun-

UNDRECEDENTED PROGRESS IN VINL CHAPPING,

It is safe to say that no country in the wo ver made such advances, in an equally briet period, as California, in the manufacture of wloca and brandies, during the past ten years. In bruth, It is little short of a miracle; a d, with a corre-punding ratio of advance, this section will soon be ome a formblible compelitor of the "pleasant lumb of France" in the production of wines and brandies of standard exectiones. When we are this term we have, of course, reference to the wice sold in critical European markets by the French right rous. It really hardly stops shart of the unr. continus-the progress that has been made to be Angeles county alone, during the time usued, in the fabrication of notably the wines. As to our brandies, they have always bren excellent, when turned out from the stills of such men as Rose and Shorb. We have in our mimil's eye to-day whose in the cask, which are not yet three years old, that will rival in quality the finest hocks of the Rhine country and in which the proportion of alcohol in not over nine per cent. It must be borne in mlad that, for a long time, it was doubted whether Los Angeles county could ever produce as light a wine us the excellent Riesling, of Souoma. As a malker of fact, we know of several vinlages of the Burget. remarkable for their bompuet, exquisite color and exhibitating qualities, which are four to five per cent. lighter than the best brands of Riesling which have been produced in Solionia county. Noibling ould show more strikingly, than a thing like thm, the possibilities which lie ahead for Los Angeles

county in the immediate future. The capabilities of this county in the line of heavily bodied wines have always been conceded. Our Ports and Augelicas have been admitted to be without rivals in this Siste; and, with the age which guarantees mellowing, the English convolsaeur of heavily bodied wines, as into raptures over Gen. Beale, late United States Minister to Aus tria, and a hon errant who has a reputation on both the Ymerican and European continents as a giver of exquisite dinners, has assuted on that an old and wellow Les Angeles Angelies can not be told apart from the fittwoods imperial of Hungary. When the celebrated violinist, Wilhelmi, was in Los Angeles be expressed himself loth surprised and delighted with the quality of our heary wines; a prove his faith and, to works, he shapped several pipes of them to his father, in Germany, who is the head of a very ertensive trine-growing cor-

poration in that country,



IRRIGATING FLUME, RIVERSIDE, CAL.

Summit is on the ridge or divide between the waters of the Sacramento and Khumsth rivers. The road from Black Buite Summit to Shasta river (near Butteville) will be eight and two-fifths miles in length. The line descends into the Shasta valley, through land of a billy rather than a moun-The country is well timbered, tamous character. The country is wert innered, being covered with pine and fir. The district is sparsely settled. (5) The road from Shasta river to the head of Willow creek will be thirty-lince miles in length. The line runs through the Shaste valley, which is from ten to twenty miles wide The land is mostly lovel, destitute of timber, and well adapted to stock-raising. Quite a unmore of settlers are located there, the chief industry being the dairy business. (61 The road from the head of Willow creek to the Klaimath river will be two makes in length. The road. miles in length. The road, as surveyed, runs through a cauyou, down a grade of musty feet to through a carryon, down a grain of timber, and the mile. The country is hilly, here of timber, and contains but for settlers. (7) The road from the Klamath river to Fox's, on Cottourood creek, will be eight unles in length. It runs over a good country, which is well sollind, the principal bush es bring farming and stock raising, The district labare of timber. The road from Fex's to the State line will be sayen and one-lifth miles in Is hare of tubber. The road from Fex's to the State line will be saven and one-lifth miles in length. The survey here passes up Cattonwood ranyon, on v grade of 116 feet to the inite. There is some turber on the hand, principally pine and fir. In the district there are a few valleys and bills, suitable for pasturage. The total milleage of this Oregon brunch of the Central Pacific Railroad will be one hundred and thirty-nine and two-lifthe railes. Next comes the San Josquin Valley and Yosemite Railroad: The road from Berenda to the

try is low and swampy for a considerable distance cansed by the overflow of Kern river and Tulare lake. The agricultural land in the Salines vulley will require irrigation. When irrigatod, as is the case with much other hand in California, it be extremely productive.

### ORANGES WITHOUT HERIGATION.

Mr. John Mitchell has demonstrated beyond any question that oranges of fine quality, thevor and size can be raised in Fallbrook without irrigation, Mr. Milebell has an orange orchard of one humbred and sixty trees, planted in March, 1879-four years ago-from budded trees. They bere fruit in the second year, and to-day, you can see one hundred trees loaded down with an average, by count, of over two hundred oranges in each tree. Constant cultivation alone has about this work. Same maheions persons in the neighborhood of the orchard are trying to convey the blux that he has irrigated his orchard, which we know is talse, for the reason that he has no means by which it could be irrigated. Call and see "old John" and his pleasant wife, who will show you their archard with pleasant. ure. If such uranges as these can be relsed in Follbrook, why not in other bridlies along the coast in the numerous protected valleys? Mitchell, by his energy and ludustry last destrated what can be done without irrigation. Constant cultivation boots freigntion, and a mounment are been erected to industry, from which example many others should follow,-Son Lors Bry

. Subscribe for THE RESOURCES OF CALIFORNIA.

tablished that we have already made phen enal headway in this wost reliably, profitable of all pursuits. It is an event worthy of com-At a similar ratio of memoration and reflection, progress we risk nothing in predicting that, lwenty years have elapsol, Southern Californs, which practically means Los Angeles county as respects wine to day, will have developed brands of wine which will become as famous as that Faletutan of old which was drunk by the Pompeians when the lara from Vesqvius overwhelmed them; as the modern and Christian Lachryma Christi, of Italy, the Lattte and the Champagnes of France, and the Schloss Johannisberger of the Metternich estate in Austria. We have already equaled the famous Oporto. Taking the State as a whole, our advance has been as great in red as in white wines, the Zinfunded baving for exceeded expectations as a claret. We are evidently just upon the threshold of most gratifying vinicultural achievements, while the results already accomplished and recorded are things to be proud of .- Los , byeles Herald.

### PRTALIBIA.

The prospects of Petalumn were never brighten There has not been al any time in our history & greater demand for city and ranch property that there is right now. Business locations are also in good demand and difficult to get without baying ont some one already established. The portion of our stry is gradually enlarging The busin ington street and Western avenue are both los into Importance, and property along thom mores, ing in value, - Petriana Course,



WENTWORTH,
Editor and Proprietor.

SAN FRANCISCO, JULY, 1883.

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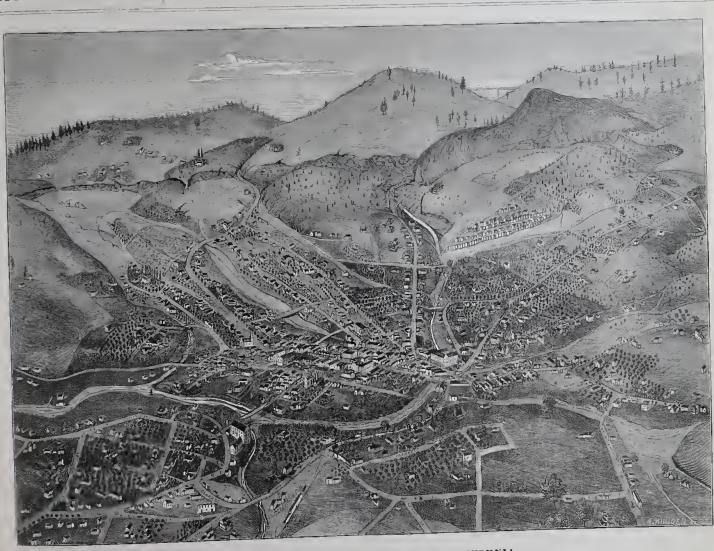
ISSUED MONTHLY.

and south by Placer county. In width it is only from 8 to 20 miles. It is divided into nine townships, viz: Bloomfield, Bridgeport, Enreka, Grass Valley, Little York, Meadow Luke, Nevada, Rough and Ready and Wushington, Nevada county has furnished more gold, and, at the present writing, has more of the precious metal hid away in its immense heds of gravel and quartz ledges than, perhaps, any territory of its size in the known world. Ever since the discovery of

ployed on the immense gravel deposits that form the heds of extinct rivers, it is but proper that a description of these gravel deposits be given.

Throughout all northeastern California, known as the gold-bearing gravel district (which embraces Nevada, Sierra, Placer, El Borado, the castern portion of Butte, Plumas, Amador, Calaveras and Problemore counties), these ancient river beds are known to exist. It is the opinion, of some of our geologists, that subsequent to the tertiary period neaterially, the theory at present held as to the

right angles with the present rivers that carry the water of the mountains into the valleys below. future years, when the beds of these extinct rivers shall have been laid bare for miles, by the agency now being employed, then it will be possible to determine the exact course of the channels. Future developments may reveal channels that are



# BIRD'S-EYE VIEW OF NEVADA CITY, CALIFORNIA.

### NEVADA COUNTY.

The Great Cold Fields of California. Gravel Mines - Quartz Mills - Lumbering Interests, Etc.

By the Traveling Agent of Time Resources.

In 1850 California was divided into 27 counties, Yuba, Nevada, Sierra and a portion of Placer he-ing then called Yuba. On the 25th day of April, 1821, Nevada county was organized. It embraces 650,240 acres of territory, reaching west, Iron the Nevola State line a distance of 75 miles, ‡It is bounded on the north by Sierra, west by Yuba

gold in California, Nevada county has furnished millions of dollars annually. The gravel mines were first discovered in 1849, and for a number of years thereafter their working was an easy and simple process. Men were known, in a few weeks, to return to their homes in the States, and other to return to their nomes in the States, and other portions of the world, carrying from ten to fifty, and occasionally, as high as one hundred pounds of gold dust each. The discovery of the uncient of gold dust each. The discovery of the incent river beds, near Nevada City, opened up a new class of mines, and required a much larger outlay, and more risk to work, than the river or ravine olminna.

Ancient River Channels. Before describing the methods of mining em-

was the time when the main valleys of the continent were excavated by erosion. It was, probably, in this epoch that the deep-lying aurifurous ably, in this epoch that the deep-sying automotion gravel was produced. The exact course and direc-tion taken by these extinct rivers is us yet, to a large degree, a matter of speculation. The theory and exact time when the waters of these rivers were running in their channels is not given by were running in their enameds is not given by scientists or geologists, but it was, no doubt, a long time previous to the time of "Jonah being swallowed by the whale."

The channels of these streams have been epened,

in hundreds of places, in the various counties above mentioned, and it is pretty well determined that the general course of the streams is almost at

course and direction of these long extinct rivers. This county is one of the best Watered

# In the State. The middle fork of the Yuhn river forms the north and west boundary line between

forms the north and west country line between Nevada and Sierra counties, and the western line between this and Yuhn countres. Poorman's creek, one of its tributaries, is in the northwestern por-tion of the country Bear river and Big Dry creek are in the southwestern part, while Prosser creek is the cream angless, and is the extreme eastern part.

### Truckee River,

One of California's most sparkling streams, is the outlet of Lake Taboe. This beautiful stream, if utilized, would furnish water power sufficient to

turn errory spindle in the numerous manufactories | machines separate the sand from the sulphurels, of New England

Nevada county's greatest closen is in the conner. ons beautiful lukes which are scattered throughout the county. The most noted of them is

The photographic view of this lake, which we present our readers, was furnished us by Mr. C. F. McLashen, the publisher of the "History of the Donner Party." Few people, who know anything Few people, who know anything of the early history of California, have not heard of the Dormer party, many of whom perished here in the winter of 1816-7. We have read with interest, several times, this thrilling "Tragedy From its pages we take the follawing.

Three miles from Truckee, Nivada county, Californis, lies one of the fairest and most pictures-que lakea in all the Sterras. Abore, and on either side, are lufty mountains, with castellated granita creats, trhile helow, at the mouth of the lake, a grassy membowy valley widens out aml extends almost to Truckee. The boily of water is three miles long, one and a balf miles wide and four foundred and eighty-three feet in depth. Tourists and pienic parties annually flack to its shores, and Bierstailt has made it the subject of one of his finest and grandest paintings. In summer its willowy thickets, its groves of tamarack and for sits of pino are the fuvorite haunds and resting places of quail and Beautiful speckeled mountain trust pleutifully abound. A rippling breeze usually trimples and dimples its bengling surface, but in calmer moods it reflects, as in a polished mirror, the lofty overhinging mountains, with every stately pine, bounding rivilet, blossoming shrub, waving fern and high, above all, on the right, the clinging thread-like line of the snow sheds of the Central Twenty-six miles north, through some of the grandest mountain scenery in the world, brings us to

### Webber Lake,

Which lies at an altitude of 6,925 feet above sea level. The lake itself is nearly round, and, with the exception of an opening on the south, is aurranneled by a frame work of wooded mountain tops. Less than a mile from the lake is Wobber falls, with a tumble of 105 feet; nearer by, on the southeast sule, is White Rock Peak, rising nearly 2,500 feel above the level of the lake, and at its foot another small hody of water, called White Bock lake. Directly on the south is Mesdon Lake Pass, with mountains towering on either side. Three thousand feet above the level of the sea alands the grim old sentinel, Webber Peak. A mile north, and 7,500 feet above the sea, is the

Licke of the Woods.

A lovely about of water curring about 45 acres; A lovely barret of water covering about 40 acres, and further to the north, Observation Point, from which a distance of 300 miles can be seen, in fair weather.

There are a number of other beautiful lakes up in lbis region, among which we will name: Eng-lish, Forrest Valley, Lake Sterling, Fanctier and

Grand Scenery.

Having visited every portion of the great State f California, we are prepared to say to tourists and visitors to our wonderful country, that stopping off at Colfax, on the C. P. R. R., and taking the Nevada county (narrow-guage) Railroad to Ornes Valley, a distance of sixteen miles, they will pass through some of the most romantic and ex-hilerating mountain accnery in the world, and visit ense quartz mills, and see the modul operandi of crusting, and other scientific, ponderous mining machinery, which has been inronte by experienced men, and manufactured by the most skilled mechanics in the United States. It will richly repsy any one to visit them, and I ven-ture to say that this part of the visit will be valued more than anything that can be seen in all California. Four miles further north brings us to Nevada City, where twelve or fifteen mills are within hear-ing distance. We visited the

### Providence Quartz-mill,

Considered to be the finest on the coast. It is a 40 stamp mill, driven by water power; the water is brought in iron pipes over the mountains, and has a fall of 391 feet. A brief description of these goldproducing works may not be out of place here, es pecially for the benefit of our many Eastern readers and tourists, who may want to see the finest, most complete and complicated machinery on the coast, yet running night and day as regular as clock-work, with scarcely any one to look after its labors. The mill is situated on the south side of Deer creek, about one and a half miles west from Nevada City, and located on the side of a mountain where the mine is. The ore la holsted up ont of the mine 1,100 feet, and dumped into the top of the mill, on to what miners call the "grizzlies," similar to a coarse coal screen, only this is made of atrong Iron hars, large enough to receive a car-load of quartz rock at a time. The fine quartz sifts through and the course passes into the rock breakers, where it is broken up fine; it is then themps Into the ore-bins where it enters the self-freders, which pass it into batteries or stamps, 46 la number. After it is atamped small enough to go through a fine screen, it

su'nharets are saved under the machines, where ey are taken into the drying room adjoining. When dry enough they are put in large avail fur-naces, 15x18 teet in size, built of brick, three stories in height, each story being about three feet. When thoroughly rousted they are taken into the cooling theore, where they are mustimed and mixed, then put lute large vate of 21/2 tons capacity, where chlurine gas is applied. covers are put on the gas is turned on for about 60 hours; by this time the sulphurets are completely permeated, This changes the metalic cold into chloride of guld, which is now in liquid form; water is applied, and the contents of the vata are The solution is then carried into other leached. ruts and there it is precipitated with anlphate of This is cleared up once in six or eight days, when the precipitate of gold is melted into bars of from three to four thousand dullars each. After the gold is extracted, a similar process is gone through to extract the silver by using a solution at hydrosulphate of soils, which gives a sulphide of silver; this

is melted into birs the same as gold. Eighty tons

of quartz are crushed every 24 hours, and from 90

to 100 miners are constantly employed in mining

and hoisting the ore, while only five men are re-

quired in and around the ntill, so systematically is

it arranged. Natural gravitution as being brought

into use from the thme the ore is dumped on to the

grizzlies" until the gold and silver bars are taken

power to run the machinery, with the exception of

the holeting works. It is the property of Walrath

One hurdy-gurdy water wheel furnishes the

The sand passes off into the stream below. The

Bros. & Co., and is not fur salo. Near by is the Merrifield mine, which also has a 40-stamp mill, giving constant employment to 70 or 75 men; it has been in operation for 26 years. The shuft is down some 900 feet. That is also one of the best-paying mines on the coast.

this mine is the Monoraincer Mill and Mining Company's mills, which have been in operation a long time

Name of these mines show any indication of giving out, but are year by year becoming bother paying properties. While San Francisco people have gone wild over mining stocks on the Comstock and other mines throughout the country, the ers in Nevada county have quietly invested their money in the legitimate development of these mines, and they are, at present, the possessors of the finest and best paying mining properties on the

There are a large number of other mines in this vicinity that we might mention if we had the space to do so; in fact, the entire western half of Nevada county is almost an exclusive mining country. There are 381 surreyed mining claims located and recorded on the county books. Between Nevada City and Grass Valley are some very rich mines. The

Blahe Mine.

Near Orass Valley, is one of the leading mines on the coast. It is principally owned by John C. and Edward Coleman, under whoso management it has paid dividends of hearly \$3.500,000 The total yield in gold has been about \$8,000,000 The total yield in gold has been about \$8,000,000.
The running expenses of themine will be greally reduced the coming season. The entire muchinery is run, at present, by ateam, which will be

superceeded by water power. 'Pho
Pittaburg Mine
Is located about one mile north of the Idabo, and the ore is of the same geological and mineralogical for-mation. This mine has been worked, at intervals, since 1851, and the total yield of gold is estimated The property belongs to busine at \$1,000,000 men of San Francisco and Grass Valley. pany bave a fine mill and all the requisits for work The care. There are from ten to twelve thousand tona of rock in place, averaging from \$25 to \$28 per ton, which represents a net profit of \$100,000,

South from the Idaho, and in the immediate vicinity of Grass Valley, are a unmber of quartz mines, which are named as follows: Empire, Kate Pennsylvania, Cassidy, Central, Russlan, Laden, Orleans, Sebastopol, and Betsy; on the weat are the Peabody, Oold Hill, Rocky Bar, New York Hill. In the midst of these is the

Which was discovered some years ago; it is known as a "blind ledge," that is, it was found, in an old orchard, 30 feet below the aurface. The mino is the property of Lawrey & Long, and is considered and of the best-paying amall mines in the district e hidge is only from four inches to two feet in width, and the ore yields an average of \$75 per ton. The shaft is down about 130 feet. The mine bas

The shart is down about 130 feet. The mine bas yielded many thousand dollars, and promises to become a very valuable property.

The mineral resources of Nevada county are not conflued to gold and silver alone, for it is known that immense deposits of copper and iron exist in various portlans of the county. The

Recently discovered, is situated about eleven milea from Grass Valley, on the road to Marysville. The mountain runs north and south, and the Iron crops out for a distance of over a mile in length, and from one to be a bundled forth a mile in a distance of over a mile in length, atamped small enough to go through a fine screen, it passes over electro allver-pluted copper plates into estimato of ore in sight is about 300,000 tons, and its character is red hematice and assays 58 per cent.

The property is owned by a company of the above | The Truckee Lumber Cumpany was established in They have run a tunnel into the mountain a distance of 600 feet, and have struck three thetinet velns; the first is 38 feet in willing the second, 50 feet; and the third, 40 feet. We consider the proporty worthy of capitalists' attention, ron is found than that produced at Chipper Gap, Placer county, and the Indian Spring from monntain le on a line about 80 miles north

Consur Ore

Is also known to exist, in paring quantities, in various portions of the county. The mines of Novada county offer many opportunities for the profitable investment of capital. We believe that iron will yet become one of the most important of the products at Nevada county. What the county needs more than anything else is practical iron men with capital-capital, the magic wand that will unlock the vinits in which this mineral woulth is now sleeping; and we believe the time is not far distant when columns of smake will rise from the iron smelting turnaces and reduction works as it now does from her many gold mines, There certainly must be some way provided for tracling the hundreds of millions dollars of gold, now lying in the immense gravel balls of Nevalla county, which will be equally satisfactory to the farmer in the valleys as well as the miner in the

### The Lumber laterest

Of the county is an extensive one, the timber consisting of pine, fir, spruce and erdar. The lastnamed is considered the most durable, when placed in contact with the ground. Of the plue there are two varieties, the most valuable for commerce heing the sugar pine, which grows to a very large sizin the east end of the county. The cummon yellow pino grows in nearly every part of the There are several very extensive inmbering comornies in this county. Towle Bros , of Dutch Flat, Pirect county, have thousands of acres of timber lands in Nevada county, and a narrow-gauge railroad for transporting lumber from their mills, the winds, to the C. P. R. R., from whence it is shipped all over the coast.

The V-thme Lumber Company's untils, located about tricky mills from Nevada City, with a heavily-timbered section surrounding them, are the leading ones in the upper part of the county they have a calmenty of about 5,000,000 feet auto-Water power is relied on for thing all the ally The saw mills are ren by a memmoth Hardy wheel, the logs being transported, by the same power, from the dam to the until, from whence they are finally carried to the main yard, at the outskins of Nevada City, by means of a

Mesers, L. & D. Merell, whose headquarters are at Nerada City, are likewise extensively engaged in the manufacture and sale of lumber. Their mills are located on Rock Creek

Louis Voss' mills are situated some fifteen miles northeast of Nevada City. Mr. Voss also deals ex-tensively in lumber at Orass Valley. The most important lumber district is in the eastern portion the county, and is known as the Truckee Basin

As we have frequently described the logging and lumbering interests of the great redwoods of Hum boldt, Mendocino and Del Nurte counties, where stealn is used, we will now gire a description of quite a different process of logging carried on in the Sierras. The

Truckee Lumber Company

Own a fine double mill, run by water power, which has a capacity of 75,000 feet located at Truckee, on the river of the same name In connection with the mill there is an immense factory which disposes of some 4,000,000 feet of Inchery which disposes of some a,050,000 feet of lumber animally; they have, also, a steady lumber trade, in Utuh and the State of Nevada, of from 4,000,000 to 8,000,000 feet per year. Last year the company sawed 11,000,000 feet of lumber. They own some 7,000 meres of timber lamil lying along the Truckee river. The canyon of the Truckee is narrow and deep, and the aides are, on an aver from a balf to a mile high. The tops of the bluffs, un either side, are extended plateaus, which, sloplug gently toward the river, extend back a further, and in places two ontes. These plateam are densely timbered with sugar and yellow pine, red and white Br. Obutes are constructed of ber, averaging twelve to fourteen inches in diameter, and about 40 feet in length. These thinbers are laid about six to eight linches apart, the small ends notelied lute the butts of the next sticks, the hisple faces being hewn smooth and greased with fallow, and the clinto is complete. or gentle grade, three or four horses intohed kan-dem draw them down the grade. A linek is stuck into the hind end of a log which has three or four other logs fustened to it with books. The saw logs are prefed of their bark. Sugar pine lugs, five feet In diameter and from twelve to sixtuen feet long, are drawn down the horse chutes to the top of the biuff, the hook is loosened without stoping, and down they go, for half a mile or more, like a streak of lightning. They are received in a reservoir made by dearming the river, otherwise they would other into kindling wood. such times as the logs are wanted at the mill b ow, the gate of the reservoir by drawn and flood carries them down the stream to the mills.

They are also manufacturing a large amount uf dours, window sashes and blinds, and give conatant employment to some 400 men in the mannfacture of all kinds of fruit and packing hoxes. They also have another hox factory on Berry street, San Frincisco. The company consists of E. J. Brickel and W. H. Kruger.

The Parelle Lumber and Wood Company, whose

linadiparters are at Truckee, have their mills to cated on the Truckee river, some right miles east. They are doing a large loods as in this line,

ome eight miles cast from Truckee is the Buca Mill and Lumber Company's mill, which has a capacity of 10,000,000 feet of lumber annually.

At Verdi, un the State line between California and Nevada, are also extensive mills,

Nelson Martin, of Truckee, is largely engaged in manufacturing all kinds of packing loxes,

The forests of timber are fast being converted into lumber. From the last information we could get, we estimate the standing saw timber of Novala county at about 530,000,000 feet.

Buttroud and Stdpping

The facilities of Nevada county, both for invel-nil shipping, are excellent. The main line of the and shipping, are excellent. Central Pasific runs along the southern line of the entire county, forming a junction with the Nevada County Narrow-gange Railroad at Culfux, 193 miles murthenst from San Francisco.

The Narrow-gauge road, 22 miles in length, was The Narrow-gauge road, 22 miles in length, was built by private capitalists from Novada county est tzens, and the capital steek is now at a premium in the New York markets. Mr. John F. Kidder, the genth-manly Superintembrit, has the credit of managing the affairs of the road in a very efficient manner, both for the company and its petrons

At Nevada City, the terminus of the road, there are two stage lines, one owned by Green & Co., and the other by D. Wellington, leaving daily for Dow. meville, North San Juan, Forest City, Graniteville, North Bloomfield, Lake City, Camptonville, Marysrille, Dutch Flat, and all parts of northeastern

B. F. Harris runs a line of busses between Nevsda City and Orass Valley, affording ample accom-modations between these two rival towns.

### Nevaila Chy.

Our bird's eye view of this bustling little minntain city, gives a correct representation of the place. It now has a population of 6,000 people, who are nearly all directly or indirectly interested in min-It is the terminus of the N. C. N. G. R R. and is situated on both sides of Deer creek, which lies in a deep canyon. The creek is spanned by a beautiful wire bridge manufactured by A. S. Hallidie & Co., San Francisco. Nevada City is certain ly one of the hamisumest and liveliest towns of Califorms. The streets, like those of most mining towns, do not run with any regularity. Many of the mines yield regular dividends. It is also claimed that Nevada City is the healthiest place in Cirlifornia.

It aupports two newspapers. The Nevada (daily) Transcript, established in 1860, is a live, news, lucal paper, giving all the latest mining news. It is published by Brown and Calkins.

The Nevada Herald, a tri-weekly, was established in 1875, and is published by Gray & Davis. As these papers are published in the principal mining district in California, they may be found in all the mining camps on the Coast

The Citizens' bank, with an anthorized capital of 00,000, does a large business in gold dust and bullion. The officers are: E. M. Preston, Prest-dent; John T. Morgan, Casbier, and D. E. Morgan, Secretary. The corresponding banks are managed by Secretary. The corresponding banks are managed by National Bank of D. O. Bank of New York, and the National Bank of D. O. Corresponding. The

### Manufacturing Industries

Of Nevsda City are quite extensive. George G. Allen, proprietor of the Nevsda Foundry (established in 1856), is manufacturing all kinds of mining machinery, employing from 25 to 30 mechanics. Ho is now extensively engaged in building the celebrated Pelton mater wheel,

Lawrence & Barlow, owners of the Plaza Foundry, are largely engaged in manufacturing mining ery, brass castings and building material

A sush, done and blind factory is owned by Geo. M. Hughes, who has been in the business for the last 27 years, and has built up quite an extensive trade in this line.

Curriages, linguies and wagans are made, in large mumbers, by William Scamen, who has the reputa

tion of through and drat-class work.

P. Clancy has been in the same business for the hast nine years, in connection with J. G. Bowerman, the wagon-maker; they timke all kinds of wagons,

from a light earrhige to a heavy freight wagou.

Wm. Barton, who makes a spenialty of picks. sledges and induses' tools, is the most efficient of Normila City blacksmithe.

There are three histories: The Nevada, estate-llaned in 1850, Islanded by K. Weiss; the Milwaukre, owned by Goo. Genhrig; and the United States. hard a combined capacity of 10,000 barries annually,

L. Soibert owns a soils works and winery; they are situated on the south side of Deer creek

James J. 016

The assayer, who established humself here as early as 1853, has assuyed ores from all parts of the Mr. Ott garn nen complete description of coast. the metals found in Culitornia. He is anthonity for all mines here. Miness should consult into and get his report before they place a value on their mines, for he is iburoughly informed on mines and ores. At Mr. Ott's office gold or s, of every description, are refined, melted and assayed, and gold bars are exchanged for outn.

Merchants

The merchants of Novada City deserve more than a passing notice. George E. Turner has the largest and best selected stock of all classes of hardware Northern California. He makes minere' supplies anch as Vulcan powder, hydranlic pipes, etc., a specially.

Hyman Bros., importers and dealers in clothing, also have wholesale stores at New York, Ban Francisco and Honolulu, H. I. Mr. Charles Grimes represents their bouse here.

B. H. Miller's clothing emperium, next to the Ouizens' bank, is one of the finest stores in Northern California.

Caspers has an immenso suck of men's and boy's cluthing, boots, shoes and hats.

Three doors below the post-office is F. M. Schmidt's tailoring relablishment.

The second door from here is A. Wutke's fusbjorable boot and shoe store.
William Holmes established his harmes and

saddh ry shop seventeen years ago; he now has a trade extending all over the mountain region.

G. W. Welch has an extensive book and statumery store, and also desis largely in jewelry, uptican's guods, musical instruments, toys, etc. Copies of The Resources,

and other periodicals, are always on hand.

Carr Bros., druggists and stationers, also carry a large stock of totlet arti cles, etc.

G. E. Brand & Bro. кеер а statumery and variety store.

The Nevada drug store. of Walter D. Vinten, con. Broad and Pine streets le supplied with a full stock of goods. C. J. Brand and F. C.

Luctje have a fine jewelry stor , and also manufacture quartz jewelry.

Walrath & Hicks bave a grocery and provision honse; they are doing an extensive business in their

George C. Gaylord has a sımılar establishment. There are two anction and commission bouses in the city. F. G. Guild ment, baving been here for the past thirteen years. Geo, Tracy came, recently, from Grass Valley. The e houses carry large stocks of furniture and household goods, and sell at auction or on com-

C. A. Barrett, the leading merchant tailor, gives constant employment to six workmen, and has a trade that extends throughout the entire upper country

Stephen Roberts' variety store is a place well patronized by the people of Nevada City.

### Hotels, Etc.

Nevada City is well supplied with hotels. The National Exchange, the leading first-class house, is located in the husiness centre of the city, with pooffice, express and stage offices in the same build-It is named and kept by Stanley A. Eddy.

Blight's dining rooms, opposite the National achange, are kept by Thomas Blight.

W. Mills keeps the Chicago restaurant; he furnishes meals at reasonable rates.

The other hotels of the town are the New York, Stimps and the Union; all of them fornish ample accommodation for travelers and tourists.

Nevada City also boasts of several fine liveries.

D. Wellington is proprieter of the Eureka express

and several stage lines; he keeps in connecton with them a first-class livery.

J. A. Graham, preprietor of the Union stables, tas a fine lot of turunuts for the accommedation of

commercial travelers.

A. B. Chaze, the live artist who sketched the city for our illustration, deserves great credit. Ho is publishing a fine large-sized lithograph of the city, which is appreciated by the citizens.

### Gram Valley.

The largest city in the county, has a population of 6,690. It is on the line of N. C. N. O. R. R., sixteen railes north from Colfax, and 208 miles north from San Francisco, It is situated in a valley, 2,500 feet above sea level, in one of the best quartz-mining districts in the Blate. The majorily of the

mines are paying ones; they have been described elsewhere. Guass Valler nas, for many years, a lively place; but many of the most enterprising citizens have made fortunes, by mining and oth industries, and have left the town, their places belog filled by Cornish miners, who seem to be content with miners' wages.

The Press

There are one weekly and two daily papers pub-The Grass Valley Union (daily) was established in 1864. It is a murning paper, and is published by Mitchell and Champton.

The Fnothill Tidings plutly and weekly), is now in its tourth year. The weekly is issued every Saturday. They were established in 1879, and are edited by R. Sheomaker, and published by H. Spaul-Both are well putronized by the people of

Upper California, as they are live local papers,
Weisshein Bros. & Co., private bankers, are new in the business seven years, and have the confidence of the lusiness men of the county. Their correspomling banks are the Anglo-Cahlornian, of San Francisco, and that of C. F. Richards, of New

#### dotels.

The Hulbrook, the only first class hotel in the place, is a fine twn-stery brick. It is one of the best conducted botels we ever had the pleasure of stopping at, and is kept by D. P. Helbrook.

The Lanor, on top of the bill, is the headquarters for teamsters, as there is a large barn con-

The Wisconsin, a two-story brick, is located in the linsing as center of the town; it is kept by W. H. Mitchell.

The Glenhrook, at the south end of Mill street, is kept by Mrs. L. Pair.

nis. The

#### Merchants

Of Grass Valley are carrying a larger stock of merchaulise than those of many other interior citics of California. We visited the following stores: I. Haas & Co.'s clothing emporium; Charles Nathan & Oo., dry goods; Elim Biggs, extensive hardware store; Peter Johnson, hardware store; J. H. Henderson, Proneir shoe store; Granger & Watt, grocerbs, provisions and commission honse; Coleman & Glassen, grocery house; H. Wahler, carpet and furniture store; W book and stationery; the drug store of J. D. Meeks, and size that of W. Lantzenlüser, who has been in business here since 1854; Gee, Calson, saddlery and harness, established in 1865; the music store of T. R. Cooley, who is setting Mason & Hamlin organs, ptanes, senlng machines, etc.; Alf. Berg's elegant jewelry stors, who also makes a specially of selling and repairing watches. All of these are leading houses, and some of them would do credit to a city as large as San Francisco,

#### Hewant L. Weed,

Who recently aradnated from the State University as this is one of the best legations for a profession of this kind.

George W. Hill does a general insurance lusiness, Ho is the meneger of the Grass Valley brau the Home Muinal.

C. E. Clinch, at No. 13 Mill atreet, is ithe agent for some of the most reliable manuage companies doing business on the coast.

A. Nevens, Jr., is acting as agent for the Rayal,

Nerwich and Lancashire insurance emponies, be-

The Washington, owned by the estate of John public, by July 4th, 1893. It is owned, and will be Frank, has about the same capacity as the Califor- | necupied by I. Sherritt, who deserves credit for his energy in rebuilding the botel, so seen after it was

The other hotels are: The New American, kept by Whitney & McKey, and the Millet, on the south side of the R. R. track

### Simon, Crorker & Co.,

So well and favorably known all over the ceast as the live merchants, have stores in the State of Nevalunt Carlin; in California at Truckee, Sucramento, Mojave, and Los Angeles; in Arizona at Yubn and Benson; in Texas at Camp Rice. The firm's office and hesdquarters are at 202 Sansome street, San Francisco.

I. L. Lewison & Co, deal in dry goods and general morehandiar; they are also in the henking business, which is quite convenient for the lumber men and shippers generally.

F. Barckhalter & Co., who are proprieture of the Particle Lowley.

Pacific Lumber Company, have a large stock of general merchaniliae,

J. Adolph has a fine stock of drygonds, clothing, dress goods, lancy goods, etc.

G. W. Hirrison has a variety store, and deals largely in green, drued and canned fruits, vegetables, etc.

D. B Tannor keeps a general variety store; he is Pustmaster, and also acts as agent for Wells, P.

One browery, the St. Louis, furnishes the lum bermen with the favorite heverage. Eight miles cast, along the river, hrings us to

#### Beca.

The largest shipping point, for its size, in the State. Fully 10,000,000 feet of lumber are shipped annually, and also 10,000 tops of ice by the Bocs Ice Company. The

Boca Brewing Com-

### puny

Use then same of tone of ice in their business; they have a capacity of 100 barrels per also, or 30,-000 barrels annually, which is shipped all over the coast-10 Arizona, Nevada, Utah, New Mexico, Gregon. The princi-Berry street near Fifth, and the branch office is 406 Secremento street San Francisco. The brew ery, at Boca, is situated one of the most romanlie spots in the mountains. amid perpetual snow and ice. O. E. Miller is manager at Boca; Albert Pfen-Mer, brewer; and Wm. He se, general superin-tendent at San Francisco. We now pass on to the northwestern part of the county to the fourth town, that of

### North San Juan.

Which has a population of about 800, It is thirteen miles northeast from Nevada City, in the center of the gravel-mining dis-triot. Goe newspaper, the Times, established some

ten yenra ago, is published by O. P. Sudger, There are two betels; the National, kept by John German, is the principal house in the town; the ether, the Rome, is kept by Stephen Solaro.

The San Juan Browery, of Geo. F. Koch, man-

ufactures about 1,000 barrols of beer,

North San Juan has a fine, healthy climste. The nimes have not produced very well of late years, and the town is not improving. The other towns in the county are North Bloomdeld, (which is fifteen miles north of Novada City, aituated in the gravel-mining district). Oherekee, French Cerral, and Columbia Hill-all little mining camps, loca ted north of Nevada City.

### A FOOTCOLL FARM.

The Grass Valley Tidings has an interesting desoription of the farm of Theodore Schwartz, Pleasant Valley, showing what can be accomplished in farming in California by thorough cultivation:

The land was but a barren waste, the hannt of the "Spanish hoof" and the versatile goat-mostly Mr. Schwartz subjected it to a system of irrigation, coupled with muscle, a couple of nucles and a plow, and of course some vexation of spirit, and the result is he now has a home as long as he or his family lives. It is a besutiful apot, nestling at the foot of Beckman's Hill, and is about the first place which delights the eye when you descend into that picturesque little valley. This abould be the case of hundreds between here and the Yuba river and miles away towards the different points compass. There is no reasonable excuse for their compass. There is no reasonable excuss for their not being dotted all over the section of the coun-try, just such fertile spots. Mr. Schwarlz bas-quite a clover crop this year and not long since be was offered \$20 per ton for 60 tons of the hay, and be can raise several crops a year on his place.



### DONNER LAKE, NEVADA COUNTY, CAL.

The Geldon Gate is at the east end of the town. sldes several other English and toreign companies.

William Bee is propriotor.

Further cast is the Western, kept by Mrs. E. J. Hobby, and also the French, kept by Mrs. Schaffer.

### Manufacturing Industries

Of Grass Valley are quite extensive, considering the size of the place. The Grass Velley foundry and mechine shop is owned by J. M. Lakenan, who been engaged in huilding mining machinery for the last twenty years. His machinery, such as stamp mills, pens, pumps, amalgamators, etc., can he seen smong the best in the mines.

M. C. Taylor, proprietor of the Mill street foundry, has been liere for twenty years manufacturing all kinds of mining machinery, heisting works, pumps, etc.

The planing mills of P. Bransteter, recently destroyed by fire, have been rebuilt on a extensive scale. A large lumber yard is run in connection with the mill.

Near by are Stewert's plening mills, doing all kinds of work in this line

The Eureka lumber yards, of Geo, Whitesides, and J. C. Conaway & Bros.' yards furnish hullding and mining material to the surrounding

We judge from the number of brewers (four in all), that the miners require considerable beer. The City browers, Thomas Hodge & Co., proprietors, has a capacity of 4,500 harrels annually. They also manufacture ale and porter, and have a trade that extends throughout Northern California.

The Grass Valley brewery, owned by D. Binkelman, can turn out 900 barrels annually.

The California, Fritz & Vogelman, proprietors, has a capacity of 500 harrels annually.

One of the most novel and ingenious things we have ever seen was Prof. P. D. Horton's invention for holding a pen while writing. It will, no doubt, be adopted in all the schools and piaces of learning in the country. We will explain this ingenious in vention at some future time.

We now pass on to the eastern part of Nevada county to the third largest town in the county,

### Truckee,

Situated on the C. P. R. R., on the east side of the summit of the Sierras. It has a population of out 1,200, and has suffered severely by fire several times, but has fully recovered, and is new bill up more substantially. The town is principally sup-ported by the immesse lumber interest, which is sorthed elsewhere. Truckee lies 259 nriles north east from San Francisco, and is the place where tourists leave the railroad for Lake Taboo.

The Trackes Republican is the only paper pub-Into Princes reputation is the only paper, published in the form. It is a live newsy paper, published every Wednesday by the Truckee Publishing Com; any, and is edited by W. F. Edwards.

John F. Moody's stage line rans dally between Truckee and Tahoe City, a distance of Sherraville, 28 miles; Loya,ton, 28 miles; Glen-brook, 24 miles; Carson City (Nevadal, 28 miles; Virgluin City (Nevada), 56 miles. Mr. Moody has recently opened a line of stages to the Hot Spring at Lake Talice.

### Hotels.

The Truckee, which is conveniently located on the south side of the railroad, furnishes excellent accommodations. This popular hole has recently been purchased by Stewart McKay.

The New Sherritt will be open, for the traveling

#### MOUNTAIN MARVELS

There is no part of the State that affords a greater or more interesting field to the student of natu ral history than the scope of country lying along the western border of the country, and known as the Coast Range mountains. Rising rather abrupt-ly from the plains the mountains reach an average hight of about 4,000 feet, though some of the neaks reach a higher altitude, notably that of Mount St Carlos—the loftiest peak on therange, which reaches an altitude some 200 feet greater than the uoted Mount Diablo. The mountains are irregular and are intersected by sinuous canyons which pursue in their course every point of the compass, seem lugly wriggling in sgony to find an outlet to the plains. Here and there the canyons with nont in-to little valleys, in which the settlers build their homes and raise a little hay and vegetables, but the soil is so impregnated with sall and other minerals that agriculture can never be purshed to but a limited extent, but is valuable, and is devoted extensively to stock-raising and mining. The mountains seem to have been forced from the bid of the ocean by some giant convulsion, as their whole surface is covered with traces of old oceans. Some parts are covered with immense beds of shells of the ovater, mussels, etc., many of which are very large and well preserved. shells appear in beds of petrified mud or sand, J. C. Crump, a resident of the section, has collected over forty varieties of shells. Beautiful and atrange petrifsclions are also found, among the rare ones that we have seen being a petrified taran-tula's nest. Among the wood petrifications that deserve especial notice are two trees-one a juniper, about forty feet long and three feet deep in diameter at the butt (five feet counting the swell of the roots), and one foot at the top. On it are a number of small limbs and knots, and all nearly as hard as flint. Were this tree removed to San Francisco, and set up in one of its squares, it would be as great a curiosity as Cicopatra's Nerdle is to the sight seers of New York. The other tree is a red-wood. Two sections of it have been transformed into solid rock. These sections are each some for-ty feet in length. Originally the tree was some 200 feet in length and six feet in diameter fine specimens of quartz are found in it. Ornmp states that he found one piece of petrified wood that bears plainly the marks of baving been out by a sharp-edged tool before being transform Mineral springs, both bot and cold. are found, and some of them, notably Rodger's hot springs, are possessed of remarkable medical powers. No two springs or cracks possess the same quality of water, and the effects of the internal regious of a man traveling through that section, if uot agreeable, are certainly prompt and exhaustive, The mineral weslth of these mountains is great, Valuable veins of clanabar abound, and some of them, as is well known, have been worked by the New Idris Company with profit for years, Heavy deposits of coal, chreme iron and gypsum are to be found, and will be worked at a profit in the near future. Promising springs of petroleum also exist, but their extent and value are ss yet problematical. In future years these mountains will be one of the leading mining sections of California. - Presuo Ex-

### SANTA CLARA VALLEY,

In every direction in this valley may be seen the results of cutting up the small farms. Hundreds of homes have already been made in five to threnty aeres of land, and this year the process of subdivis-iou is going on more rapidly than ever. At every turn trees are being planted, wells are being hored and preparations made for more new homes. And this is the right use for such a valley as this was made for the purpose of providing highthful homes for people of education and refinement. Its and vines can be cultivated without much hard labor, and these products can be made to maintain their owners in comfort and independeuce. It is not too much to say that ten acres of land in this valley, well cared for, will yield as much actual profit as a hundred acres in most other parts of the world. And the work sud expense of caring for the one is really but a little more than a touth part of what is required of the other.

These facts are becoming known in all parts of

the country, and thrifty citizens are flocking hither cape from the dreary routine of hard labor in the Eastern States, to the comparative case and independence offered bere. People of intelligence also desire to escape the Arctic rigors of the winter, and the equally disagreeable and debilitating effects of the hot summer. And every one that comes sends for his friends and neighbors. There is no disastisfaction, and indeed he must be hard to please who is not suited with the conditions of life Of course there are few chances to make fortimes, but wise men know that money is in uo sense to be compared with health and comfort, and they make their arrangements accordingly,—Sun Jose Times.

### RICH GRAVEL.

The face of the North American tunnel, run from near Olbsonville, Sierra county, says the Downleville Messenger, is now in Plumas. The gravel pays \$2.25 per car load.

### VENTURA COUNTY'S INDUCEMENTS

The following we take from the Ventura Signal, a paper which never fails to point out the many admotages its county has to offer settlers:

Never at any year or season of any year has Ven-tura county held out such superior inducements, to men seeking homes, than at present. To the man of limited capital, but who is willing to work, we We have a climate unsurpassed by any on the face of the earth; nur soil is of the richest, and for every dollar invested a handsome return is aure to be given. By prindent and careful economy, a man can, in a very short time, make his term pay for itself-this has been demonstrated in more than one instance. Everything he plants grows with but very little care, and we have the cheapest mules of transportation for all our marketable produce-by water, which is cheaper by one bulf than the railroad can deliver it in Sau Francisco. Ventura always stands lirst as a corn-producing county of the State in a good year, and very near the top of the list as regards barley-mixing. Besides, her land lies in such a state, with such exceeding levelness, that much less labor is required in cultivating it than in any the of countirounding as Cur broad valleys are not marred by a slugle hillock, and a man can mount his ploward rule from one line of the county without juterrup-Los Augeles is having her boom and will, doubt, soon have an overflow. This overflow will very naturally find an outlet into Ventura county, In the south and east the people are beenming rest-less, and we have no doubt but that the residents there will soon be seeking a more desirable locality in which to make a home. To such we say come to Ventura county-here we can gratify the most fastidious taste as regards elimate, soil and all other accessories to the comforts of life, Socially, our population is of the best in the land, and comprises many of the oblest and wealthiest families in tho State. Our business men should be prepared to receive them in a beneficial manuer; to do this our resources, productions and climatic healthfulness should be shown up in the true light they occupy. e shown up in the true light they occupy. We shall have mere to say, in the near future, con-cerning this subject, and will do all in our power to divert the tide of immigration to our falr abores. Meautime we will cheerfully impart all information on subjects pertaining to our county, so far as it is in our power to do.

### SIERRA MINING ITEMS.

The Downleville Messenger, of recent date, gives the following items respecting mining in that

Very rich quartz is reported at the Four Hills Quartz mine.

The Sierra Buttes Mining Company is clearing the ground for a new quartz mill, which will be in operation next fall.

The Alaska Mine people are preparing to rebuild their hoisting works recently burned. The loss was about \$35,000.

Thos, Sharpe was np from Crizzly Hill, last week, and reports pleuty of water and prospects of a geed sesson's run.

The claims at Craig's Flat and Morristown are having a better run than they had last year, but will prohably not be able to rnn for a great while longer,

The Union claim, at Gibsenville, is linving more water than cou be conveniently managed, and the output of gravel is not so great as it otherwise would be. The dirt is as rich as ever.

The 1001 Company, at Sierra City, is working a hed of cement plach carries much gold, gravel in the claim is bine colored, soft and averages about two dollars per carload. cearse, some pieces being worth fifty cents, one dollar and one dollar and a half each.

The Bald Mountain Extenden Company, at Forest City, is now working 24 men. Last neek, with six drifters on a shaft, 53 ounces of gold, worth \$18.50 per once, were taken out, averaging about \$2.10 per carload. The company will recrease its working force as fast as developments

### THE ORE ROASTING PROCESS,

The roasting furnace in operation at the Gold Blossom mine seems to be just what the miners of this county have been writing for, viz: Something that would sove a larger porcentage of the gold at a mulerale cost. Most of the ore from the ledges in this part of the country will assay from \$50 to neveral hundred per ton. By the furnues process shove referred to the gold null silver can be saved close up to the asany value, and we understand the expense of the process is comparatively light. There is encouragement it would seem, for others to adopt this process, and with a dozen or more of these rousters in operation in this ueighborhood this would be a lively camp Even by the old process the returns being received from the different minos in this locality at present are altogether eucounnging .- Placer

#### RIVERSIDIO

Rev. Thomas K. Beecher, writing from ltiverside, to the Chicago .ldvanco, has the following nice things to say:

The wonder of it is that it has all come to pass in less than ten years. The change from a durcless, dusty and nearly level plain to a guitten piot ten miles long, and broad enough to more sure up 12,000 acres. I am tribing about Riversale, Cal.

When one goes to sea on a great stemmer, and sits the evening through in the airy saloens, music, carpets and general cumforts make one forget that it is shoulife or that all is affinit; so in this reclaimed oasis, one can nalk or rule unle on unle through vinevards and orange groves; the waysule delineated by hedges, or shaded by encalyptus trees SIXTY (1) feet high; almond treess in bloom; prach, pear, apricot, lig and walnut trees thrown in for laxury and variety! The roads hard und ringing honeath the trotter's feet. Avenues of residences whose architecture is of no ment pretentions. Fountains, flower gardens, vegetable gardens, pastures and mowing plots, in short, a garden township without a wasted acre, aml yet, one can jump nverboard from a ship after a ruu of two steps, so one can get out tuto dryness and desolstion by a half mile of walk annle from the two little "rivers of the water of life," from whose gifts all these growths have to pass. All this has come to pass withiu ten years, I say

I never before understood the river poetry of the Bible. But now I do. Of course, irrigation is an ald, old story, older than Egypt and the pyramids. But I never read and never expected to see the desert "blossom as the rose;" and the city "made glad;" and the waters that "go swiftly;" and the trees on either bank; and the rivers that are "turned," and "twelve manner of fruits;" and the "bealing leaves," all come to pass and msking bomes for 2,000 people in less that ten years from the dryness and desulation of the forrst.

The men of Chicago have some sense of the growth and greatness and are able to talk swell. But the patrons of Riverside can talk oranges, grapes and raisins, a steady stream that would fl into silenco any Chicago boasts 1 ever heard. Riv erside is worth a visit; I've been here twelve

### THE THERMAL HELT FOR FRUIT.

The Petaluma Courier calls attention to the thermal belt that exists on our mountains as a desirable fruit climate, and instances the Sonoma range as being favorable for fruit cultivation. That paper remarks that "Captain Mock, a very intelligent farmer who bas lived at the foot of Sonoma moun tain for over twenty-five years and been a close observer, says that he is satisfied that the apricot and olive will grow to perfection in this warm belt. Bibler's splendid vineyard, one of the largest and most profitable in the county, shows what vines Some of the best land for vineyard and orchard purposes in the State is now being used in large tracts for grazing and grain-growing pur-Land along the mountain side, well situated and adapted for fruit-growing purposes, 18 held at from \$30 to \$40 an sore. That is the valley and just as far from town, would readily bring \$100 We prodict that in less than ten years frem now, some of the most profitable ore and rineyards in Sonoma county will be found in the warm zone on Sonoma mountain." The Napa range of Senona hills and mountains are known to favor fruit and rine production, and quite a number of orchards and vincyards are now in bearing in the redwood region which give the best of results There are thousands of acres of land upon these mountains susceptible to cultivation, which are used at present for grazing purposes, that could be turned to better account in vine-growing, while orchard and eitrus fraits are much superior to any raisil on valley lands. Oranges and Jemons, figs, and olives find a congenial climate, while the soil is warm and porons, with abundance of thin and hardty a trace of trost in average rield is not so heavy as in lower lambs, but the quality of grapes and fruits is far supermr. Apples also have better keeping qualities with a more solul flesh, and perfect flavor. - Spinomia Democrat

### CHROME THON.

In the fills and mountries of the upper part of Napa county, considerable quantities of flow chrome from is found, which seems to malicate the existence of large hodies of that upo. The date of 34 cents per pound recently half upon it is likely to make its gathering, preparation and exportation a lively business. It is in great demand in extico, weolen and carpet fuctories. It is found only in Turkey, Russia, Siberia, Collibration and Marghand, Large quantities are used in the manufacture of iron and steel. Chromic steel has been freely used in the production of the Brooklyn bridge, the permanent green and yellow seen in dlumina-ted papers and hank notes. The manager of the Brooklyn Steel Works says that chrome steel is worth three cents a pound more than any other steel, and he believes that in three years the demand will be greater than the supply,-Xapa Ro-

### HEACK SAND

The blark, magnetic sand that is found in shan dance in the washings of nur gold unnes is, by a new pricess, utilized in the manufacture of cast new pricess, indicer is send. Eight pounds of said yields the journals of steel. The slog that is left is valuable us coment for fire proof rading. The movements predict that their discovery is destined to revolutionize the areal trade on this coast -Mountain Democrat.

C. P. SHEPFIELD. J. PAPIEDSON. N. W. SPAULDING

### PACIFIC SAW

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### PLACER COUNTY.

Cold Mines - Cranite Quarries - Lumbering interests-Foot-Hill Fruit Lands - Fine Scenery.

Lake Tahoe and Other Pleasure Resorts-Towns Described, Etc

(By the Traveling Agent of The RESOURCES 1

By referring to the map of California we find Placer county located on the western side of the great Sierra range of mountains, north-east from Sacramento, and 176 miles north-east from Nan Francisco. It is bounded on the north by Nevada and Yuha counties, on the west by Sutter county, on the south by El Dorado county, and on the cast by the State of Nevada. A part of the eastern boundary of the county is the fained Lake Tahoe, of which we will speak farther un. This county was organized by an act of the Legislature approved April 25, 1851. Before that time Auburn, which is the county seat, was the seat of justice of the original Sutter county, then including most of what is now Placer county. In shape this county is nearly a parallelogram, boing over 100 miles in length, from a north-east to a south-western direction. width, just above Anburn, between the Bear and American rivers, is very narrow, being quarters are at Dutch Flat. These gentlemen own

Groutte Quarries
The quarrying and drassing of granite is an importunt ilem of the wealth of Placer county; there no theer granile in the known world than the quarries of Penrys and Rocklin. There are several species of granite, the rock at Pe gryn being much darker than the quarries at Ruchlin, but at the latter place it is much easier worked. Large quantities of this excellent building material are annually shipped all over the coast, and may be seen in the public buildings and works of California. Among them may be named the base of the Stato Capitol at Sacramento, the United States Mint at San Francisco, the dry dock at Mare Island, in fact, many of the handsomest buildings in San Francisco were constructed from Penryn and Rocklin granite.

#### bumber Interests.

From the best information we could get while among the people of Placer county, we estimate the standing saw timber of the county at about 470,-000,000 feet. The timber consists of sugar and yellow pine, spruce and hr. The humber sawed is shipped Arizona, Nevada and Utah, besides supplying the home trade over the Sacrameuto and San quin valleys. We obtained our information, about the lumber interest of this county, from Mr. A. Towlo, of the firm of Towle Bros., whose tread-

berries, raspuerries, table grapes, apples, quinces and tomatoes from the vicinity Newcastle, Auhurn, Rocklin an I Penryn are rapidly increasing year by year, and the frult from this section is gaining favor. A shart distance helow Aubarn, up the mountains, we find the red soil prevating, which the finest of fruit is raised equally with the granite soll, but, as we reach a higher point, small fruits drop out, and the apple, year and cherry come to a higher state of perfection. Placer county has good shipping facilities as it is traversed hy

### Raticanils.

The Central Pacific enters the county on the south at Roseville Junction, which is only 18 miles northeast from Sacramento, the capital of the State, the road taking a northeastern direction to Colfax, a distance of 35 miles, which is the junction of this road and the Nevada County Narrow-gauge road; the Central here takes an eastern direction across the Sierra mountains. Following an near the line between Placer and Nevada comuties to Truckee, a distance of 66 miles further, where it crosses on northeast through Nevada county. At Rosevillo Junction is the Oregon Division of the Central Pacific, running on north through the western portion of the county. Placer is exceedingly well

#### Watered

By numerous streams, the largest being the Ameri-

bitoyancy. Nothing is ever seen floating on the lake, except the beautiful little steamers and pleasure and fishing boats. The boiles of persons drawned in this lake never rise-are no again. The entire distance around the lake is 141 miles. Lake Taboe is the great sanitarium of the Pacific Cuast,

There are a unsuber of fine summer resorts built on the margin of the lake, on all sides. The first, from the Truckee side, or principal thoroughfare, is the Grand Central, at Talme City, kept by A. J. Bailey. Some eight miles further on, by steamer, is A. J. McKinney's, where a fine hotel and a numher of cottages are built for the accommodation of those who wish to spend the anomer. The mountains here are from two to three thousand feet higher than the lake. Twelve miles further on

### Tullac Hause,

Owned by E. J. Baldwin. This is one of the finest resurts on the const. In the honse are the postoffice and telegraph and express offices. The house is si nated about 200 feet from the margin of the lake, annul grassy meadows, magnificent groves, croquet and tennis lawns and archery grounds. There are horses, carriages, hoats and fishing tackle at the enumend of the guests. Captain Gordon, formerly manager of the Auzerais, of San Jose, is superintending the Tallac.

Three and a half miles further on brings us to



SCENE ON TRUCKEE RIVER, NEVADA COUNTY, CAL.

about eight miles. In its topographical features, the whole of its terrilory faces toward the setting sun, extending from an altitude, on the plains in the western portion of the county, of some 40 feet to over 7,000 feet at its eastern houndary line, embracing nearly every variety of climate known in the State. The area of Placer county is 915,000 acres, of which pne-third, or 330,298 acres, is assessed. The

### Mineral Resources

Of this county are extensive and very rich. The gold mines of the aection, both placer and quartz, bave yielded up in the millions; the former, from which the county derives its name, have been worked from the early days of '49. The two divides are distinctly hydraulie sections, and the works are, in many instances, very extensive, nota-For at Hill, Bath and Michigan Bluff. Millions of dellars have been expended in getting the water, in pipes and ditches, from the mountains, and there are several thousand miles of ditches in the county,

Drift mining is carried on to some extent, two of the most notable places being at Forest Hill divide; one at Damasons, and the other at Sunny South, The tunnel at the first-mentioned place is in the bill over a orllo. There are also unmerous quartz ledges being worked, and prospectors are cuntim-ally making new discoveries. Most of the quartz inling is carried on in the fact hill section, near the towns of Anburn, Ophir, Newssatle and Penryn.

railroad nueteen miles in length, extending from Alta, which is on the line of the Central Pacific Reilroad, up into the timber land; they have four saw mills in operation, and cut and ship from 12, 000,000 to 15,000,000 feet of lumber annually.

### Farining and Finit Lands

The farming section proper consists of the average plant land, and embraces the west end of the county. It is not so rich a soil as that of most valley lands, as it is of a granite formation, on which crops of wheat, oats, harley and hay are raised, varying in quantity and quality with the amount of moisture during the season. The successful farmer, as a rule, summer-fallows one half of his land, and crops the other half, thereby prolonging the fertility of the soil and making crops more cer-

The foot-hill, or fruit lands, are the most valu able in the county; they extend over about one-half of its territury, and circle around to the north of Lincoln and Sheridan up to Bear river; and from Rocklin, anotheast towards volsom, we have the beginning of the foot-hill fruit section. This sec tion is composed of rolling hills, traversed by raylnes, and, up to within two miles of Auburn, is of grantle formation. This point of the county is the most prosperious, as it is illing up with settlers who are turning their attention to the raising of fruits and berries

from 12,000 to 15,000 acres of timber tand, and a | can river, with its several branches, which all nd some of the grandest scenery in the State. Few people who come to California from the East, overland, but what remember coming around Cape Horn, on the Central Pacific Railroad; and through the courtesy of the engineer, who stops his train, you look flowu-down-for seven thousand feet, to the thread-like stream of the American River below. A grander and more exhibitating sight than this cannot be imagined. Coming down the western alopes of the Sierras, your eyes feast on scenery that is varied, novel and magnificent. In a ride of two hours and a half you come down from 7,000 to 100 feet, where you enter the Sacramento valley, from perpetual sum w down to everlasting summer, which gives you the first breath of the balmy, soft air of California. The other streams are: Bear river, which forms the line between Placer and Necounty, and the Truckee river (on the east), which is the outlet of

### Lake Tulioe.

One of the most wonderful hodies of water in the world, lying at an allitude of 6,218 feet above the level of the sea, tt is 23 miles long and 15 while (in the form of a parallelogram), and lies northeast and southwest, partly in California and partly in the State of Nevuda. The greatest depth yet found is 1,800 feet. The water is so transparent that, where the depth is from 80 to 100 feet, trent ults and berries.

can be seen at the bottom. Owing to the allitude
The skipments of peaches, pears, cherries, bluch—and rarity of the atmosphere the water has little

keeps plenty of saddle horses, and has a dairy of 50 cows; his cream and butter are mostly c sumed by the different hotels around the lake.

Fourteen miles further, on the Novada side, we come to Gienbrook, where there are several sawnills, an hold suid a narrow-guage railroad, running in a zig-zag stirection to the summit of the mountains, where a V-flume takes the lumber and wood to Carson City, the capital of Nevada. From Glenbrook unother sail is made, a distance of four-teen nules, back to Takoe City. The steamer makes the round trip in six hours. Mrs. E. B. Crocker, of Sacramento, has a beautiful summer resort (Intervald), where a number of cottages are built amid a grove of beautiful evergreens.

Of the thousands of visitors to Lake Tabos every season, not one in ten obtains even a passing glimpse of Emerald buy. Tahoe is, perhaps, the best known of the beautiful lakes with which Calformia abounds. The landscape view is remarkably fine and inspiring. Every mile of the stage route, from Truckee to Tukoo, is teaming with objects of grandour and enchantment.

### Hot Springs

Is a heautiful place recently opened by A. A. Bsyloy. Mr. Moody rans a regular line of atages from Truckee to the springs. The temperature of the arr at ited Bprings is, at least, ten tegrees warmer than at Lake Tahoe. The warm sulphur bath, partionlarly the swimming baths, are peculiar features of the hot springs that can not be found clsewhere around Taboe. We will now give a brief description of the different lowes and villiages, the largest of which is

Aukarn,
The county seat, which is one of the oldest lowns Northern California, having a population of 00. The town is located nearly one mile west 1.500. from Auburn station, on the C. P. R. R., 157 miles northeast from Sao Francisco. The elevation here is 1,375 feet above the sea level. The greater portion of land in this vicinity is gold-bearing mineral, but where water can be had, fruit culture is very profitable, as the location is below the soon belt d away from the fog belt. Lands are valued at from \$5 to \$100 per acre for fruit band which will grow aprients, apples, cherries, plums and all kimls of berries in profusion, besides the linest of grapes

There are several health resorts here, the climate being considered the healthnest on the continent. At the station are several good hotels. The Bor-and House was recently purchased by W. F. Frreman, and is a splendid place for tourists, commer-

On the cast side of the railroad is the Globe, kept by A. Crawford. The lucation is the most eligible in all Califoroia, as the great Sacratocuto valley is in full view on the west, the snow-capped Sierras are oo the east, with the great eanyons of the American river in the foreground. Slages leave the station every morning for Georgetown, Greenwood, Coloma and Placerville, over a picturesque ronte, through the old gold "diggings of '49."

The town of Anburn is located in a small valley, and, like most California mining towns, is not laid off with any regularity, but it has pleasant villes, nice, shady nooks, and fine springs of crystal water. There are several churches and good schools, and the business houses are nearly all built of brick

The American Hotel, recently purchased by Frank Tull, is a fine, three-story, fire-proof brick, and is kept in the very best of style.

Andrews & Hellenbeck, who do a private banking

business, have been established since 1857. They are also agents for Wells, Fargo & Co.

Auburn has several first-class local newspapers. The Placer Herald is the second oldest paper on the Coast. (the Alta claiming the palm). The Herald was established Aug. 8th, 1852, and is prin The ted on the oldest press in California-the one with which Sam Braouan printed the Culifornia Star, as early as 1847. It has a large circulation, is ably edited, and is published every Saturday by J. A. Filcher.
The Placer Argus, which is edited and published

by H. W. Fenton, was established in 1872, and is an excellent paper, being issued every Salurday.

Witts & Huntley, stationers, keep a large stock of popular periodicals, including The Resources or California. They also have a full assortment of school and library books at the post-office store.

A few doors from there, in the same block, is the saddlery and harness shop of Chas. J. Hellwig, who constantly keeps a full line of goods on band. Ogden Mallery, at the west end of Main street,

as a similar establishment. Mr. T. E. Stephens, who incated here in 1862, started a general grocery and provision store, and, after tweety years of successful trade, to-day has one of the finest stores of the kind in the county.

Anbarn has two fine drug stores, one of kept by S. M. Stevens, and the other, on the opposite side of the street, is kept by E. C. Snowdr

Auburn also boasts of the oldest brewery in the State, having been in operation since 1851. It is owned by Rahl & Weber.

Five miles down, towards the valley, we come to

New Castle, Which has short 200 inhabitants, who are mostly engaged in the fruit business. The New Castle: Fruit Growers' Association are doing an extensiv business to boxing and shipping fine fruits East, and to Sacramento and San Francisco markets.

The next town in the conuly is

Dutch Flat, which is located 31 miles east of Auburn. This own is shout one-half mile from the railroad. down in a cauyon among the hydrantic minea. This has been one of the richest gold-producing sections of the State, and at present has a popula-tion of about 000, mostly engaged in mining and lumbering. There is an ahundance of water here which has been brought in ditches and pipes at great expense. Here are exhaustless gravel banks, rich with placer gold.

A daily stage is run from this place to Nevada Olty, a distance of 17 miles, by T. R. King.

Dutch Flat has one newspaper, the Placer Times, published by W. A. Wheeler, Towie Brothers' lumber office is located here; a

description of the business of this store is given

W. & P. Nicholas are doing a banking busioess, principally in gold dust and builton.

H. R. Hudepohl established himself here as early s 1853, in the mercantile business, and now h the largest atoro of general merchandise in the

The town has two very good hotels, the Dutch Plat Hotel, built in 1851 and re-built three years ago, is kept by B. Mallows; the other is the Piacer Hotel, bept by W. A. Sharron.

One hardware store, kept by W. H. Hillhouse, who has been here for 31 years. Julin T. Jones tablished the Union Drug Store in 1853. H. Cohn & Bruthers' Clothing Emporium is also an old es-Inhibsted store. G. S. Mecker's general atore, and J. H. Runckel, s grocery store, were established in 1857. H. H. Halsey combacts the Posts fice Book Store, where a tull lime of bunks and stationery. also copies of The Resonness, together with all the dutly and weekly papers, may be found.

Furgisbu & Davidson, contractors and builders, also undertakers, have built up a bustness that extends over this and Nevada counties.

G. M. Halsey is the only carriage and wagen

maker in the place

These constitute the principal business bouses of

#### Calfus

Is the third largest town in the county having a population of about 600; it is located at the junctton of the C. P. and N. C. N. G. railroads, 17 miles morthenet from Auburn. A daily mail is run from here to fown Hill, a distance of nine miles. This place has recently taken a new life, as it has heen ascertained that it is one of the best grape-producing sections in the State. The temperature for the past five years was: February, 43.75 degs.; July, 80.05 degs Average ram-fall for five years 46 27 mehes. The population is about 800. climate is superior for aufferers with asthma, weak lungs or throat diseases. The soil is a clayey loam, mostly deep; it is well a tapted to the apple, pear, peach, grape, hops, small fruits, etc. Lunds produce as much per acre as in better known locall-Land sells at low figures: railroad, at \$2.50 per acre; there is some open for pre-emption. Lumber is worth \$14 per thousand feet, and whak a. \$9. An owner of 20 to 40 agres under cultivation is trust, would have an income of from \$2,000 to \$3,000 a year. One ten-acre vineyard here clears over \$1,000 a year. Fruit of all kinds finds a ready market. Failure of grape crops has never been known. All grapes sold here for table use, thus

far, have brought \$50 per ton.

Hayford, Perkins & Co., who came here in 1848, bave the oldest atore in the county, and carry an extensive stock of general merchandise.

Mr. John Buttler, the postmester, has a fine drug and fancy goods store. G. W. Nickell, also, bas a store of general merchandise.

J. A. Oulver conducts a large carriage and wagon ma ufactury, giving employment to a number of mechanics, making heavy freight wagoon for the monntain trade.

Gue thing is very much needed at Colfax, and that is a good hotel, as the one formerly here hurned down. Colfax is the junction of two railrouds, where a large amount of travel passes over the Nevada County Narrow-gauge road, up into northeastern California. We hope to see some enterprising botel man open up a good house, which would be appreciated by the reciple of Grass Valley, Nevada City, Downieville, and a bost of commercial and mining towns, as well as the commercial tour-ists, who daily visit this upper country. Between Colfax and Auburn is

Clipper Gap,
Where the famous Chipper Gap from mine is located, the works of which were burnt down a sbort time since, but has recently been rebuilt much larger than formerly. This iron is known to be the best in the market. We saw stone plate made of this iron by G. H. Tay & Co., at their works in Alvara-do. It was maileable and flexible. At

Which is on the Gregon division of the C. P. R. R., 29 miles north from Sagramento, are located the extensive potteries of Gladding, McBean & Go. The works are situated on the edge of town, and the immense clay bank is located only a mile away, on land owned by Towle Bros. The clay is in a bill; it can be easily extracted and is of the very best quality for sewer pipe, chimney tups, fancy urns, flower pots and domestic ware of all kinds, which are moulded and burnt in the most approved man

At this place is also a coal mine, which violate very fair coal for steam engines and other uses.

Seven miles further north, on the same road, is the village of Sheridan, located in a farming region, and containing a fice flour mill.

### Roseville,

The junction of the railroad, 18 miles northeast of Sacramento, has a popul-tion of 350. The faroning community is thriving. The soil is principally a reddish clay, except along the creek, where it is a sandy, black loam. The town supports four general stores, owned respectively by M. Luvensans, W. A. Thomas & Son, J. D. Prait and W. A. Bransteter. One hardware, lio and stove store is kept hy W. P. Cole.

There are two hotels. The Junction House, on the west side of the depot, has accommodations for from 35 to 40 guests, and is run by J. B. Branst ter. The other, on the east side of the railroad, is the Golden Eagle, kept by W. Scott.

There are a number of other towns in the county. such as Ophir, Alta, Blue Canyon, Emigrant Gap, Gold Run, Forest Hill, Pino and a host of other

at present. The county Assessor estimates that there are about 300,000 acres of frull and grain land susceptible of cultivation, a great portion of which

#### THE ARTESIAN BELT.

The boundaries of the belt are, as yet, very uncertainly defined. From the attempts which have already been made to locate them It is quite evident that the belt has nearly the same general direction as the valley and the mountain ranges, i. e. from the north-west to the south-east, though it swerves to the westward some what faster than do the latter. The line of the Southern Pacific Ruilrnad bus been thought to mark the eastern limit of the helt with tolerable accuracy, though a few very small wells have been obtained a short distance cast of the track in the vicinity of Tule river. At Tulare City, and even two miles east of this point, wells have been bored which undoubtedly tapped same strainm of water that supplies the flowing wells further west, but the water only rises in them to within three or four feet of the surface and will not flow. There is a small flowing well two miles west of Tulare City, but It is very doubtful if one sould be obtained much nearer. Of the western boundary of this belt nothing is known except that it cortainly extends to the take, and perhaps far beyond; and its northern and southern limit are alike unascertained. This much, however, has been proven beyond quistion: There does exist a tract of as fine land as can be found in the entire State of Cahfornia, or anywhere else, not less than 25 miles in length and from twelve to fifteen in breadth, upon which no one has failed to get artesian water who has made the trial for it, and it is exiremely likely that as additional wells are bored in other localities, the limits of this tract will be still further extended. Indeed, it is the general opinion that good flowing wells may be had almost anywhere in this vicinity by boring to a sufficient depth, but as no wells have yet been sunk much deeper than 800 feet, this is simply a matter of conlure, supported by inferences based upon the configuration and character of the country

We believe we are perfectly safe in saying that willin the limits of this belt can be lound good land for 4,000 forty sere farms, which, if we allow five persons to each ismily, will support a popula-tion of 20,000 people wilbout crowding any ore.— Tulare Register.

### IS IT THE PLACE FOR A POOR MAN!

How frequently the remark is made of Riverside and other places in Southern California where land is sold at \$100 per acre and upwards: "This is a good place for a man with plenty of money, but it is no place for a poor mao." If by "poor man" is meant a man poor in energy, management and resources, then the remark is true, but when applied to a man of energy and smuitton it is not true, even though he have little or no money,

To illustrate the point by a practical example, we mention the name of A. B. Combs, well known to the citizens of Riverside. He came to this valley several years ago without meaoa. He was crippled with rheumatism and could get around with great difficulty. The sente character of his disease became better, but be was left crippled for life, and well advanced in years. His family consisted of bimself and wife. He rented a house and worked when able for others for wages. Three years ago he purchased a two and a half aere town block that bad been partially set to orango trees. He commenced improving the same when he had time.

Last year he built a nice, comfortable home and moved into it. This past year the exhibit from his place of 2% acres, shows as follows:

	440 seedling orange trees sold from	
	nursery\$	330 00
	150 biidded orange trees	150 00
	20,200 Sultana grape cuttings	306 00
	17,600 Muscal entitings	44 50
	400 other cuttin B	8 (0)
	166 boxes of raisins—net	300 00
	_	
	Total receipts\$1	,138 50
	EXPENHES.	
	Cultivating \$ 29 00	
	Wilter 10 50	
	Irrigating	
	Pruning 50 00	
	Houlng 4 00	
	Picking and handling grapes 25 00	
	**	
1	Total expenses\$	112 50
	This gives a net income for the year of \$1.	026

### ALFILARIA.

In contracting this kind of grass with alfalfa, the Fresno Expositor says:
Alfilaria, although an annual, will, with the same

Riverside Press.

care that is bostowed on alfalfa, yield more and better hay, every season, than it. If cut and Detter may, every season, man it. If our and watered it will give as many crops per season as the alfalfa, and it will be on hand with a good crop of feed earlier in the spring lian any other grass. Its ability to stand drought was never more thorough-tered it by design the present tested than during the present season in Fresno. While all the other native grasses are recompletely dried out, the alfilaria struggled along, and when the rains came at the close of March, it sprang up little mining camps.

The census of 1880 gave Placer county a population of 14,226, which perhaps, would reach 14,500 and shoep.

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Fire and Marine Insurance

Capital, paid in full, - \$200,000.00

Assets, Dec. 31, 1882, \$376,978.08

Losses Paid Since Company was Organized, \$867,528,70.

JOHN H, W1812.... President CHAS, A. LATON.... Secretary

### OFFICE.

No. 405 California Street, S. F.

July.

enryoyed. The owners do not often live upon their status, but leave them in the hands at managers, and draw the revenues. The Haggin, Carr and Pevis property is divided into a unmber of seperate nanches, each with its resident superfettendint. The Bellevue Ranch, so called, is the centre and focus of inthority for the whole. Here is the residence and of the general manager, and here are assembled a force of book keepers, engingers and mechanics, who keep the accounts, map, plan, supervise, construct and repair, and give to the whole the clock work regularity of a great commercial enter-The numerous buildings constitute a considerable settlement. There is a "state" of general merchandise and supplies. A dormitory and diving-hall have been erected for the luborius bands. A tower-like water-tank, surmounted by windmill, and accomodaling a

milk-room below, rises at one side. There are shops for the mechanics, capacious harns, aud long sheds fitted with an iuterminable array of agricultural implements. It is worth while to take a walk past this collection of reapers, threshers, salky plows, and rakes, and study out their uses. The immense "header and separator,' rises from the rest like some awe-inspiring leviathan of the deep. A whole department ment is devoted to the "road serapers," "buck scrapers" and plows of various sorts used in the construction and dredging our of the irrigating ditches. The soil fortunately, free from stones, and the work is for the most part quite easy. One enormous plow is een which was designed to drawn by sixty yoke of oxen, and to cut at once a furrow five wide by four deep. Like the famons steamship Great Eastern, it has defeated itself by pure bulk, and is not now in use.

More than \$500,000 have been expended on the great estate in the item of fencing alone. An average of four hundred laborers is employed, and in the harvest

season seven hundred. The rate of wages is quoted at from two and a balf to three dollars per day for mechanies, and one dollar per day to common bands. This seems low as compared with information from other sources, and that which appears in the chronic complaints of the scarcity of larm labor in the California papers.

No great portion of this domain appears to be now in the market at the disposal of settlers of small means, though the intention is avowed of offering some of it in this way when all shall have been thoroughly reclaimed. Numerous tracts, been thoroughly reclaimed. Numerous tracts, however, are necupied on very favorable terms by aetilers, as they are called. They take from 120 to Very many of them are Portugese and Italians. They are usually unmarried, work in companies of from six to fifteen persons, and wear the red Garibaldi shirt. The renter is provided by 600 дстев. his landlords with a house, an artesian well, a credit to a moderate amount at the general store, and the use of some cows. He has the milk of the cows, but must give their increase to the estate. His lease runs three years, and he pays as rent our-third of his crop. Instances of large profits are frequent among these persons, and no doubt the e opportunities are open to others who may whah to follow their example, - Wm. Henry Bushop in Harper's Mugazine.

### NOT SO EASILY OVERDONE.

A great many people think that the grape business is likely to be overdone. There appears to he no reasonable grounds for such fears, especially when we remember that in the old and thickly settled districts of France, where viticulture is a spec-ialty, grapes are selling at from four in twelverents pound, and at these rutes, vineyardists after realize as tigh as \$5,000 per acro. In this result is seen the benefit of small farms, throughly worked and highly cultivated,—Tulare Regions.

#### STURBORN RAILROAD WORK.

A writer in the Sacramento Bee has the following, showing the many difficulties which the railroad builders encounter in penetrating a California wilderness:

The Central Pacific Railroad Company is just now engaged in about as tough a little piece of road building as it ever engaged in since the days when it comminded to hew down the bills and exall the valleys for the track on this side of Collax. They are hutiding the line north from Redding in Califormis to the Oregan burder, about 150 miles. It is said then sugmests estimate that the grading alone will cost \$30 000 per ruile. They have two ranges to cross, and one is the northern buchbone of the ing Smrras. It is no chibles play, surely, says the Sait Lake Tribune, to lay a smooth trach over the runte, but it must be done in order to give San Frauetsco and Porthand direct, switt land connection, and the trade between the two cities is son thing so tremembus now that it is time that a part of it was withdrawn to a land route. Then too, when the Northern Pacific shall be finished, a great many people with want to go by that route, and will want all rail connections with San Francisco.

Again, without the completion of the road, the Chicago merchants would, on the completion of the Northern road, find markets in Oregon, clear down to the California line, and in the raterest of San Francisco the connection of the link between Redding and the southern terminus ii) the Oregon and California road must be made. When completed it will be a charming region to ride through The road will ran right, at the feet of old Shasta; it will cross some of the most hearitful rivers in the world, particularly the Cloud, and will pass through a forest of mighter timber than over a railroad penetrated before. Singar pines six, seven and A SMALL FARM.

As an evidence of what can be produced on a mall farm, we publish the following from the Dixou Tribune:

William Alexander on us a beaufiful fortyacre tract, situated hall a mile south of Batavin. The Doctor's farm is a delightful sti dy to those who love to louk upon veried and heantiful vegeta tion. A large dry slough, running nearly north From either and south, divides it almost equally. bank, the land slopes away gradually, and the soil is rich and productive. It is beautifully had out, and now that the vines are putting forth their buds, aml the trees are clothed in a rich and numbrageous foliage, the scene is one of great beauty and magnilicence. The term is ilevoted exclusively in fruit. There are about 14 acres of aid and full hearing vines, mostly of the Misston Variety. three, 7000 vines are about 15 years nil, and 500 are about 20 years old. They are thrifty, and show uo signs of decay—indeed, from one acre of the oblect vines, the Doctor hast year picked nine tons of grapes, and Mr. Chas. Harhinson picked ten tons from the same vines, three years ago. These are perhaps the beaviest bearing vines in the county, and for aught we know, in the State. Among the old vines there are also 300 Museut, and 500 of other foreign verieties. About a year and about of other foreign verieties. About a year and a half ago, the dictor planted 1800 Zuttandels, and 2500 Muscats, and these are in prime condition. The following year he added 600 Tokays, and these are also doing well. It is the intention next year, to put out 12 acres more of wine grapes. When the reader remembers that these wine grapes sell readily for \$30 per ton, and that \$8 per ton will cover the entire expense of nicking and shipping, some definite nica of the profits derired, may be formed. The Doctor also has 300 almond trees, 50 apple

A MOUNTAIN HOME,

The Los Augeles Herald gives the following account of a visit to a monntain home built by sheer industry and hard inbur:

During our recent trip to the San Formando Valby we encountered an experience that is calculated to encourage those who are belined to hould houses in our mountain mooks and canyons, that we had bad enough of wheat and crain, Gen. Al. Workman, when he trucked the oblistage road through the Santa Sasana Pass, told as that he proposed to treat us to a sight of the mountous home of M. C. Johnson, a Dane, at one time a teamster with the San Fernaudo company. Mr. Johnson has established bimself at the first of the tighest peaks of the San Fernanda mountain. He is nine teen hundred feet higher than the plans, and his home is reached by a tombusy whose construction is a miracle. This man and lite sons-linth youngsters-have createst roadways which represent more real labor than all the Boards of Supervisors of Las Angeles commy have put on all the roads of this opulent county during the past ten years. We know what we are talking about because we have been over them. Our ascent, to a driving rain was truly an up-hill operation. But at last our laburs were rewarded, and, right at the foot of one of the highest peaks of the San Fernamhi avountains, a charming scene burst upon our vision. On this elevan d coigue of rantage Mr. Johnson has created an ideal mountain home, as purfect of its bind sa Mr. L. J. Ruse's Bunny Biope or Mr. Coggsnell's Serra Madre villa. Mr. Johnson has not, itse those gentlemen, spent hundreds of thousands of dollars upon his place; but both of them, were dollars upon me place, they to visit this mountain eyile, would cheerfully alout that this energetic Dauc, considering the difficulties he had to encounter and the means at his disposal, has accomplished greater

results than they. He has an elegaut home, a bundred stand of bees, and appointments whose existruce deumnstrates him to be possessed of a high order of mechanical ingenuity. he will go on subjugating the chap-aral until nearly his whole bundred and sixty acres will be under an elaborate state of cultivation. In his search for water, he simply tunneled into the mountain's side through the solid grante, being rewarded by a stream which tally fitteen thousand gallons a day. He has another stream of smillar volume. He has emstruc-ted reservoirs, which he has sucked with carp. This indomita-ble borticulturist sells his fruit and garden truck to the farmers of the ralley, and is as prosperous as te is tudependeut. Не раз вссошplished wonderful things. Other men have shown what can be done in the footbills. Johnson, by creaing a paradise on the mountain's entimit, has opened now possibitities to the settler in this section.



LAKE TAHOE, CALIFORNIA.

thick as blackberries along the route for miles.
From San Francisco to Portland, by rail, the dis-

tance will be about 660 miles. The steamers that they have in the trade between the two cities make the voyage now in 48 hours in good meather; prob trains will not shorten this more than 15 bours, which would be no object so far as freighting become fired. The passenger timiness will mostly go to the cars for there is only now and then a person who desires to cross the Columbia bar just for the pieneure of the journey. The Central Pacific people have performed things which have made more noise than the opening of this roal with, but they have nover given any better exhibition of sturdy courage and pluck than the opening of this road will present.

### CALAVERAS COUNTY MINES

From an article in a recent issue at the Criaveras Chronicle, we take the following items:

Chronicle, we take the tooking up now in this county, and we believe that the prospects were never hetter for this main branch of our resources than at present.

In the vicinity of Angels there is now considerntile netivity, and motory is being invested on a large scale. There are several mines there that we believe are destined to last for years, and yield that are now operating have evidently come stay, as they come with the coin, and not mere tail, ms has been too much the case heretulore.

To tay our mines stand as well in San Francisco

nuy on the coast, and large sums of money have intely been throught into the county in payme intnes, and for building milianud reduction works.

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eight feet in diameter and 300 fret in height are as | trees, 400 pear trees, 350 apricot trees, 75 peach trees, 25 plum trees and 25 young cherry trees. Besides these there are sbade and ornamental trees in great variety. A mammoth black walnut tree, whose friendly branches throw a delightful shade over the pretty and comfortable residence, measures 85 inches in circumference. We also outced an English malunt tree, which bears heavily, and we believe is the only one in this community. will simply add in conclusion, that Dr. Alexander purchased this farm three years ago, for \$5,500, and there is no doubt he could dispose of it to-day for double that amount.

### STARTING A NEW HOME.

The following article, which we take from the Rural Californian, shows how to make a living from the start on a new home:

s easily done in Southern California. No one should buy land without water for irrigation, and with that, aifalfa and abundance of other green feed can be raised, and the family put upon a self-supporting basis at once. It has been abandantly proved by experience that with three or four good dalry cows, 100 hens, and pigs enough to consumo the dairy slops, that a family can be supported to comfort whilst waiting for the fruit orchard and vineyard to come into hearing. In addition to these the spaces in the orchard between the trees can be utilized for the growth of potatoes, eabbages, peas, squash and other vegetables, not only without injury to the trees but with revantage, as the irrigation and cultivation required to printing them are just what the trees munt and mould have to have if the ground remained vacant, of the surplus hutter, poultry, oggs and vegetables will amount to a considerable sum and easily pity the greery and olothing hills if economy is

### DANA ON CALIFORNIA.

The following is a portion of an interwiew that, recently, took place between the distinguished editor of the New York Sun and a representative of

the Chromele of this city: "This is, I suppose, your first visit to Califor-

nia.

" Yes."

"I trust it has proved agreeable?"

"It assuredly has. It has been both instructive and delightful. It is important that a nisu who desires to understand the country thoroughly should see the South, the country along the Mexican border, and the States of the Pacific. 'l'brse are all peculiar and they contribute their own special orements to the general power and prosper-

ity of the country."

"How have you been impressed with the peculiarities of climate, soil and seem ry ?

liarities of climate, soft and scenery?"

"I am greatly struck with the richness of the soft in all parts of the Shrowhich I have visited. The only thing necessary to make California one of the most prisperons of agricultural rigions is an attainable of water, and this security to be pretty well provided for by nature."

"Now these then that the State has a faince?"

"You think, then, that the State has a future?"

Yes, and a glorious one. Oshforms is undoubt-Union. The variety of its products, the beauty of its climate and the felicities of its situation make it one of the most favored regions of world."

### WATER SUPPEY.

Some of the people of this county are agitating the quistion of the formation of reservoirs in the mountains for the storage of surplus water muti such times as it is needed upon the plane. The reports of the State engineers upon the subject are very favorable in the project, and this plan with conductive to the people, and this plan with probably be adopted in the near future. - Inter & Register.

### THE RESOURCES OF CALIFORNIA.

JOHN P. H. WENTWORTH,

EDITOR AND PROPRIETOR.

### PUBLICATION OFFICE:

No. 339 Sansome St., HaHeck Building.

ISSUED MONTHLY

SAN FRANCISCO......JULY, 1883

### READ AND CIRCULATE.

When you have read this paper preserve it and lend it to your neighbors, or send it to some friend in the Enstern, Westernor Sauliern Stales, Canada, England and Continental Enrope, who will wine the information it contains, and might be likely to come or send intelligent, industrious furniers to sellie in Catifornia.

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### SOME OF CALIFORNIA'S ADVANTAGES.

We can conscientionaly declare that California offers to farmers greater advantages than any other State. The average quality of the soil is better than that of most others, and it requires far less labor to prepare it for cultivation. It is ready, generally speaking, for the plow without any previous expenditure of time and labor. Besides this, our climate is exceedingly favorable for agricultural pursuits. Not one tenth of the expenditure for outbuildings is requisite that is considered indispensible elsewhere. Au immigrant can purchase a new form, plow, sow, reap, secure and morket his crop of grain in less than twelve months. As to abundance and variety of products no State can rival California. There is enough land to support a population greater than any other State the Union can boast of We can not doubt but the immigration would be many fold greater, than it now is, if the people at the East and in Europe fully comprehended the facts. It would be difficult, without much reflection, to arrive at an adequate idea of the power and wealth which will crown our State, in the future, by the development of her wonderful resources. In the langoage of mother: "In a territory so vast as the imperial domain over which her government bears sway, with its variety of soil and climate, its coast line, bays and rivers, and its wealth of mines and forests, it is natural that there should be found an almost indefinite number of inviting lines of investment for labor and capital."

Indeed, those of us who are the most familiar with this subject, hardly begin to appreciate the magnitude of the wealth of our heritage. Rapid as has been the growth of California, power and influence, it can be said that the outer surface of her boundless wealth of resources has hardly been more than touched.

When we remember that California contains an area well nigh three times as great as the New England States, greater than all the Middle States (with Maryland and West Virginia added), and greater than Eugland, Scotland, Ireland and Wales combined, by 70,000 square miles, we begin to have some conception of the grandear of our domain. And this will be more fully impressed when we refleet that, within this domain, more theu twenty States of equal size with Massachusetta

could be created, or about 140 States of the size of Rhode Island. And when we consider the capacity of this vast area for sustaining population, we acquire a still clearer idea of the great future of California. No portion of it is inferior, in this particular, to the populons State of Massachusetts; on the contrary, in every particular it is acknowledged to be superior. Yet it is shown that when our State attains a population equal in numbers to the square mile with that of the old Buy State, its inhabitants will number 33,000,000, or a population of more than two-thirds of that of the

In our broad State, where almost every production under the sun can be raised, and where almost every industry can be successfully prosecuted, there is an opportunity for all intending immigrants. But it must be understood that, notwithstanding the wonderful advantages California offers, labor, enterprise and jutelligence must be called into requisitiou.

#### FRUIT LANDS.

The San Jose Mercury, after interviewing several cauners and dealers in green fruits, reaches the conclusion that every foot of ground fit for fruit growing is being planted as rapidly as the purseries can furnish the stock, and the means of the owners will permit. That journal thinks it is only a question of time, and a very short time at that when Santa Clara Valley and the foot-hills surrounding it will be one immense orehard, yielding large revenues to its hundreds of thousands of different owners. The fruit growers of Santa Clara county do not seem to be troubled with any feurs of coming to grief from overproduction. The enterprising city of San Jose already boasts of having two large cauneries in its midst, and is talking of erecting one or more at an early day. The demand for their caused fruit is greater than the supply. There is no doubt but this will be the case in every fruitgrowing district in the State as fast as canning factories are established. In our opinion to much good fruit cannot be raised. All fruit growers of intelligence know that as yet, the local supply has never exceeded the demand, in reality, and that as soon an our facilities of transportation increase, so will the demands for our fruit multiply. We have only to let it be known that the fruit is here, to open up markets for all that can be raised in the State.

### FRUIT CANNERIES.

The local papers of the interior contain frequent mention of the establishment of fruit canneries in their respective localities. The prospect for the coming season is said to be very bright. It has been estimated, by those largely interested in the business, that the present year, Santa Chara, Los Angeles, Souoma, Napa, Sacramento and San Jeaquin connties will produce between \$2 000,000 and \$2,-500,000 worth of fruit and vegetables that will find a market in a preserved form directly from those counties, while the product of the San Francisco canueries will largely increase

Canning truit is destined to become a great industry in this State. By preserving fruit by this method it can be sent abroad to nearly every port in the world with which we have commercial intercourse. Referring to Califorma canned fruits, the Boston Journal remarks "that only the perishable nature of the goods prevents successful competition with Florida and other southern points, but the case is different with preserved fruits, canned vegetables and dairy products, and that the time is almost within sight when the Pacific Coast will compete with the entire country in all these matters, and grently to the advantage of consumers everywhere.

### THE STATE'S GREATEST NEED.

California needs immigrants, not only those who come here to spend wealth accumulated elsewhere, and live in our beautiful cities, and enjoy our landscape and climate, but those who have wives and children for whom they must earn a living and make a home. Our large tructs of land will besubdivided under the pressure of a large and willing population which demands them for homes. We want a population of them for homes. agriculturists, people of rural tastes and instinets, who know how to live on the soil and direct its fruitfulness to their profit and the gain of the State.—Oakland Time

# HOME PRODUCTION AND FOREIGN IM-PORTATION.

In the matter of production many of our people are somewhat peculiar. For instance, they will send abroad for goods in numerous branches of trade, and pay duty on them, when they can obtain those of a superior quality, at a less price, which are manufactured at home. But we are glad to learn that within a brief period, an improvement in this respect to some extent, has taken place. As un illustration: In the importation of foreign wines and braudies, a great change is now going on. It is gratifying to us to be able to state that California wines and brandies are beginning to be appreciated at home; consequently the quanities now imported are much less than formerly. Notwithstanding experts and conuoissenrs pronounced them superior to those imported, our people persisted, for a long time, in sending their money away from home and out of the country for an inferior article. There seemed to be something singularly captivating about a French label. But the sensi. ble portion of our people are beginning to get over their fondness for everything that amacks of a foreign origin. It was the same way with It is a well known fact that some of our large hotel and restaurant proprietors would purchase this article simply because it had a foreign label on the bottle containing it, well knowing it to be an adulterated article, but they had to do it to suit their guests. Since the Kimballs' of San Diego, the Coopers' of Santa Barbara, and the Shorbs' of Sau Gabriel, have proven to the world that our State can produce the gennine article-one which the best judges of the old world prononuce for superior to that ever imported to this country-California olive oil is finding a ready market at home. Thus it has ever been and will continue to be so, until our people are educated differently. They should be taught that every article, wherever produced, should be valued and prized according to its merits.

California, as a State, is making considerable headway in her education in this respect. In this connection we cannot forbear saying that we trust our farmers, although slow to profit by experience, will, in time, cultivate and manufacture for themselves, whatever products they are now short-sighted enough to pay others exhorbitant prices for. When that time comes California will be in a much more prosperous condition than she is at present.

### PROFITS OF FARMING.

Judging from the Ctoville Record, farming in Butte county, seems to be a profitable indus try. That paper states that a farmer on the Pratt Grant, last year, cleared \$6,000, above all expenses, from 320 acres of snmmer-fallowed grain. Another farmer, who rented laud on the Parrott Graut, cleared \$42,000 above all expenses

The Butte Register makes mention of a farmer who, six years ago, was not worth a dollar. He began by renting land, and he is now worth \$10,000. Another farmer, five years ago, when he moved into Butte, was \$6,000 in debt. He has paid off his debts, bought a ranch and paid \$5,000 on it, and bus his stock, feed, furming implements and a growing crop. He has made in the five years not less than \$16,000 above expenses. We have no doubt but similar results out be accomplished in many other counties in the

### A FAVORED COUNTRY.

Californians have reason to congrutulate themselves that their lines have been east in pleasant places. Every year proves most conclusively that this Pacific Coast is one of the most favored spots on the face of the earth. The fertility of the soil, the wide range of products, the mildness and salubrity of the climate, and the absence of violent patural phenomena, place it in the front rank We have an occasional harmless tremor, and sometimes our valleys are overflowed, but these are nothing compared with the violent storms and the great floods of the older States and Europe, which result in great loss of life and destruction of so much property. The winter just passed has been remarkable for violence by sea and land. Scarcely a day has passed that some disaster has not been chroni-While this has been the ease, there has been nothing to endanger life or property here or to disturb our sereuity .- Sonoma Democrat.

#### A PROSPEROUS STATE.

As compared to many of the Atlantic States California is certainly in a gratifying condition of prosperity. Besides being assured of harvesting good crops, it is also highly gratifying to know that California is now receiving an influx of from L200 to 2,000, of the most desirable class of immigrants each week. People will continue to come here for many years, and those born in the State will nearly, if not quite, equal those who may leave it. Californin is slowly but surely settling up; towns are being built; the waste lands are being developed; new industries are springing into existence; outside capital is being invested in every mineral and agricultural district. Besides, in addition to the increase of ordinary immigration, the State is becoming a resort for many tourists. A large number of visitors will come here from the East this summer; and they will do more than leave money-Some of them will make this State their perma, nent homes. They will have considerable to say on their return, of our climate, our soil. our productions, and the ample room California has for millions of settlers. These visitors will only act as an advance guard for the hundreds of thousands that will come here within a few years to be permanent settlers.

There is no doubt, whatever, but California is now enlisting more interest abroad than at any previous time since she became a portion of the Union. And there are satisfactory reasons for it, among which we will mention the following: There is more prosperity and more rapid development of her resources, in proportion to the number of inhabitants, than can be found elsewhere. Surely, then, no other land in the world, to-day, in point of chmate, richness of soil and natural advantages for great business enterprises, holds out so many inducements to immigrants, whose object is to settle down permanently and make homes for themselves, by industry and perseverance.

#### NEW WHEAT.

The first new wheat of the season reached this market from Solano county some three weeks earlier than the first that was received last Threshing is now generally under way, vear. and will not be completed until October. The yield is turning out better than was anticipated a short time ago.

### NORCROSS & CO.

The old and well-known bonse of Norcross & Co., was established in the year of '49 by the present senior member of the firm, Col. Daniel Norcross and stands member of the firm, Col. Daniel Norcross and stands at this day pre-cuiently the head in their peculiar line of business on the Pacific Slope. Some of the most elaborate and magnificent costumes for the members of Catifornia Commandery, No. 1, K. T., have recently been manufactured by this bouse, excelling anything class ever heretofore attempted as will be seen in the procession of the constag Couclave of Knights Templating the setty during next month. They are also manufactured by in this city, during wext month. They are also manufacturing elegant and superfor outfits, of the regulation style, at less price than can be imported from the East. This branch they have made a specialty, in which they have proved a perfect success. Odd Fetlows' regalla of the most exquisite designs, in embroidery and work manship, aro also a leading festure in their manufac Odd Fetlows' regalias turing business.

Paraphernalia of every description is to be found, in this old established house, of their own manufacture, in quality much superior to Eastern importation, and

at equally low prices,
Another branch of industry is the manufacture of fings and banners; in this line of business the house has become justiy celebrated for the style and character of the many beautifully designed bancers and flags furof the many beautifully-nesigned bancers and fags 10rnished by their catabilishment. Army and Navy embroideries are executed in a highty artistic manner, and
everything portaining to military or maval goods, such
as awords, bolis, shoulder knots etc., may be
found at the pioneer establishment of Daniel Norcross
& Co., Musonic Temple, No. 6 Post St., Sau Francisco.

### HOW WE PROSPER.

An item appeared in the Herald, recently, to the effect that probably 270 dwelling-hous had recently been and were now being erected in Los Angeles. At the time it was considered a careful estimate, but it is for too low, as is evinced by a thorough tour through the city, in which the new residences were counted. The total unmber is 334, all of which have been erected within nine mouths, most within five and many burely started, or not yet finished. They are of all sizes and shapes, from a shapty up to elegant residences.-Los .tngcles Express.

### PRICE OF LAND.

There was, says the Butte Record, 1,610 acres of the Farwell rauch, Butte county, sold last week for \$68,000. This is equal to \$42

#### VITTORIA TO FRANCESCO.

Parting with friends is temporary death, As all death is. We see us more their faces, Nor hear their volces, save in memory; But messages of love gire its assummee. The warm of the world of spirite comes no greeting, No messages of love gire its assummee. The messages of love gire its assummee. The through the world of spirite comes no greeting, No messages of love gire its assummee. The through the world of spirite comes no greeting, No messages of the gire its speaking to me whence smaller through the world of spirite speaking to me whence smaller through the barrel windows speak to those within, as quiet as the table that he beneath me, as quiet as a heart hall heats no more. This convent seems. Above, helow, all posee is slence and colitina, the smill's hest friends, are with me here, and the tunnithous world Makes an omer naise than the rambeds of heaves among the base of the strength of heaves among the base of the spirit, into the limit cloth of the seemed, the method of heaves among the base of the strength of the seemed, the method of heaves among the base of the seemed, the not slight for the seemed of the se

### OUR PRICELESS CLIMATE.

(Written for THE RESOURCES OF CALIFORNIA, by James

Climate is the factor that irrevocably decides, not only the status, but, to an eminont degree, the manners, customs and general characteristics of every people. It holds all with a power as positive as the law of gravitation, from which there is no escape, making of as either miserable, worthless do-nothings on the one hand, or go-shead, accomplished men and women, on the other,

It is the climate of England that made her the exalted nation she is, for had it happened to have been a counterpart of that of Veneznela, for example, her immense coal deposits and tron mines would have availed her but little or nothing, and the proud, lordly Briton would never have been heard of,

It was, too, the rugged climate of New England that stamped its impress upon the Colonists, inspired the spirit that brought on the Revolution, and has since introduced American ideas and products of Yankee ingennity into every nook and corner of the civilized world.

It is said that every available spot for a summer residence, upon the Atlantic Const (from Chesapeake Bay to New Brunswick), has been hought up by the wealthy classes; and why all this, if not for the sake of climale, the land heing too pour for pasturage, and, intrinsically, almost worthless.

Climate gives us the grains, vegetables, fraits and flowers of the temperate and tropical zones, or, on the contrary, the blubber, frozen fishes and icebergs of the frigid North inspiring to noble action, in the one case, and condemning to a state of wretched, filtby misery, in the other.

It is safe to assume, that when with magnificent climate, is combined a most prolific soil, great extent of mineral resources (including the precious metals), water power beyond all precedent, and a geographical position the most central and commanding upon the whole globe, the locality so favored must, naturally, rise to a status of commercial, mechanical and productive grandeur, the like of which has never yet existed in any period of the world's history

This is the precise situation in California to-day, and, when placed in comparison with that of any other section in the known world, the difference is so astonishing that her citizens are fully justified in every word or line they have ever attered or written in praise of the climate, womlerful possibilities, immeuse lesources and manifestly brilliant future of their adopted State.

There is still another great fact that every person should know, and it is this: We are almost totally exempt from every form of Physical disturbance; our enrinquakes, of which so much has been said and written, are, when placed in comparison with those of other localities, scarcely worthy of name. I have herienced every one of any consequence dur-

ing that period, know exactly what I am stating, and um free to declare that the published accounts have, as a general thing, been gross, comical and exaggerations.

Thunder and lightning occur here only once in a great many years, and then it is on a par with that caused by heat in the Eastern States, and for that mutter, to all intents and purposes, the statement can be made that we do not have either. Hurricanes, tornadoes and cyclones are wholly unknown on this coast; and our severest storms are but stiff breezes when compared with those on the Atlantic seaboard.

We are, also, free from pestilence of every character; while the sir which blows over the State, from off the broad and placed Pacific, comes a distance of 6,000 miles across the ocean before it reaches us. People sicken and die here, the same way they do in other parts of the world; but the native Culifornians, who have never known anything of the vices of modern society, live to be very aged, a native Indian named Anrero Largo (Long Hide) actually committing suicide, some four months since, who was proved to have been 150 years old. This occured a short distance from San Diego.

It used to be a common remark that the old Californians never died a natural death, but, on the contrary, dried up and blew away, course, this was mere talk, yet, at the same time, it was based apon the broad truth that they were exempt from nearly every form of disease.

To my mind, the value of this almost absolute freedom from storms, pestilence, miasma, extreme cold and the many other troubles that afflict humanity in every other quarter of the globe, can not be too kighly estimated,

Land becomes very valuable in the sections of a large city where trude principally centers, and fabulous prices are paid for the rarest gems of earth, and, frequently, when a business property is sold the amount paid for the good will exceeds the value of whatover is material, many times over. The climate of California, her glorious sunshine and seven months of continued fair weather, together with freedom from all the troubles I have described, are her great qualities, her peculiar characteristics, a portion of her mighty resources, and, just so sure as land now sells at \$3,000 a front foot on Market street between Third and Fourth, will the time come when every acre of her soil, at for cultivation (from Siskiyon to San Diego and from the waters of the Pacific to the Nevada State line), command prices heretofore not even dreamed of.

Does this seem visionary? Then I would ask the reader to consider that, in all the latitudes and longitudes of the earth, there is no such other section. Eugland, Continental Europe and the United States have their great commercial cities, where the silver dollars necessury to enver a lat would scarce suffice to pay for it, yet these great centers often compete with each other for commercial supremncy; but this whole world-north, south, east and west-has but one California, and she no competitor, and, as a matter of strict logical sequence, she must naturally, and will, assuredly, rise far above every other portion of it.

Upon the soil of this State will be born the coming men of superior mould. I will go still further, and make the assertion that the most splendid animals and grandest types of the vegetable, cereal, botanical and vinicaltural kingdoms will all belong to the genus California. Here, too, is destined to be the very cream and absolute center of civilization; and San Francisco will yet he a larger city than London at the present time, and prouder still than Rome in the days of the Emperor Augustus and her era of solid marble pride-all this the result of that peerless climate, without which her grandest resources would be as nothing. Young as this city is, no other in all America has such splendid forses, and where else can he seen finer cattle than those of California, both being peculiarly free from disease; and where, too, in all the length and breadth of the country, can be found another such stock of blooded animals as that of Leland Stanford at Palo Alto?

Let the reader for a moment consider, thoughtfully, the fearful battle constantly ucc essary to sustain life in the far cold North, the sadden changes of weather in the Middle States, the horrible death dealing, oppressive

in California all is as serene as the hosom of some romantic lake pestled amid its own eternul hills in August and September, we persuing the even tenor of our way year in and year out, literally exempt from all such physical troubles, people of ordinary constitutions scarcely giving health a thought, looking upon it as a common blessing, in precisely the same manuer they do sir, light and water, simply as matters of course.

There are thousands of old miners now scattered over the Union who, when here in the early days, slept out of doors upon the hare ground for months at a time, with absolute impunity; and had it not been for the salubrity of this climate the people of that period would have perished. Lumber sold quickly at a per square foot, while common tacks brought ten dollars a paper. A cross-cut saw commanded sixteen dollars a day rent, and very dull at that, for the purpose of sawing the logs in order to make shakes for the roof, or sides of a cabin.

Women, who came across the plains that season (1849), lived all winter, in many cases, in a tent shaped like the letter A, composed of unbleached sheeting, and neither took sick nor died; while the writer and his partner, on the night of November 14th, of that year, slept soundly upon the open plain, fifteen miles beyond Secremento, amid a drenching rain, with an India rubber blanket beneath and another above us, our pony having mired down heside the trail. Such was life here in the good old days referred to, and such would, doubtless, he death in any other quarter of the world,

It will thus be seen that climate is the most priceless of all blessings, for without it there can be no general health. We, the early Pioneers, are justly proud of ours. We know it to be the very best ever given to any people, and we say to all, whose circumstances permit, come here and enjoy it with us. Come to the great and glorious Snuset land, where the rarest of flowers bloom the whole year Leave cyclones, tornadoes, muluria, yellow fever, drend consumption, bitter cold and suffocating heat, for behind, and here, in bright, peaceful, golden, hoppy California, take a new lease of life, and go on with the flood to wealth, bealth and the very highest state of true physical enjoyment.

SAN FRANCISCO, July, 1883.

### GRAND CARNIVAL AND BAL MASQUE

Col. A. Andrews, of the Dinnout Palace, on the 7th inst will give another of his grant masquerate balls, at the Mechanics' Pavition. It will cellipse anything of the kind ever given in San Francisco. The following rapresentative citizens have consented to act on the

various committees, viz... Invitation Committee. His Honor Mayor Barilett, Invitation Committee,—His Honor Mayor Burner, Major Gen Welter Turnbull, Major Gen W. H. L. Barnes, Gen, W. H. Dimond, Hon, John S. Hager, Hon, A. J. Bryant, Hon, Geo. C. Perkins, Hon, Durry Wellone, Col. A. Andrews, Col. J. P. Hogo, Col. J. II Dickluson, Col. 4, P. Jackson,

Dickluson, Col. J. P. Juckson, Reception Committee, —Gen. Geo., B. Grosby, Col. A. Andrews, Col. J. J. Tobin, C. A. Sprekels, Esq., J. P. H. Wentworth, Esq., Gen. S. M. Backus, Col. J. C. Tucker, A. D. Sharon, Esq., H. H. Pierson, Esq., Cot. J. M. Zhadealda. Litchilleld.

Committee of Awarda.—Hon. D. A. MacDonald, Chairman, Major.Gen. Walter Turnbull, Major.Gen. W. H.
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Esq., Col. J. H. Dickinsen, Col. Richard B. Sinton,
Joseph Rosenburg, Esq., Col., C. H. Maddrox, B. F.
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Col. O. Livermore, Gen. H. A. Colb, J. G. Sola, Esq.,
Lnigt Laviosa, Esq., Col. W. R. Smedherg, Gon. James
Covy, Easton Valuer, Esq., t. G. Gardner, Esq., Col. S. Committee of Awards. - Hos. D. A. MacDonald, Chair Cot. O Livermore.
Luigi Laviosa, Fen., Cot. W. R. Smedherg, Gon. James
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hely gentlemen. The invitation Committee have extended to Gov The Invitation Committee mave extended to GOV.

Gov. Stonenum an invitation on a gold plate, brautifutly engraved, enclosed in a magnificent silver envelop, to be present on the occasion, which he has accepted. This will be an additional feature of this promising and novel entertainment.

Officers for the occasion,-Col, A. Andrews, Proprie-

tor and General Manager; Hon. D. A. MacDonald, Grand Marshal; J. Berolzhium, Secretary; Jos. D. Abrams Pinancial Secretary, Auguste Golly and Samuel Baker, Treasurers; Heorge O. Ecker, Committee on Printing

### THE OFFICIAL RETURNS

#### Texts of the Re-netton flurity-turily Water Wheels by the Idaho Mining Company.

The tests of these wheets were made by the tilsho Mining Co., commencing on April 30th, and on following days, for the purpose of ascertaining the comparative per cent of efficiency of the various water wheels, of which the result is given below. They were made in public and all lad a right to compete, in making the tosis a pony brako was used on whode six feet in diameter, under a head of 384 feet and six luches, the noint of connection with the senie beam describing a clromaterance of 30 feet. In aneasuring the water to ascertain the cube feet per minute discharged, a thin plate werr, without contraction, three feel and one-half furti long, was used, and the J. B. Francis formula, for discharge of water over wers, was adopted as the basis of catculations. These were made by Mr. George Fletcher, Auditor of the Nevada county N. G. R. R.

Company, s	ин мыре г	IS [II]]OWB		
	Free	leadoner	Wheel.	
Weight on brakes, lbs.	Revolu-	Horse power.	Heart of water over welr, Inches	Ouble ft. of water per min- ute,
14436	t96	79.2	4.976	363.21t
35834	260	84.2	- 0	- 11
1161.36	216	80.6	10	- 11
838 %	278	84.4	- 0	11
298	281	76.1	11	- 11
358	250	84.3	11	(1

Other tests were made of this wheel, resulting in as average of 82 925-1,000 horse power, utilizing 69 6-to per cent, of the force and impact of the water.

### Petton Wheel-First Test.

			Hend of	Cubic ft.
Weight on	Revolu-	Ногы	water	of water
brakes, lbs.	tlong.	THEWCE.	over welr,	per nuls.
			Inches.	ii te.
466	25434	t07.58	4 975	t03.211
1.65	255	t07. Tfl	11	11
460	256	107.07	- 11	
460	26636	t 07, 26		D
		Second T	est.	
465	256%	108.4t	4.950	162.98
170	949	106.39		- 11
4100	237%	107.68		0.1
465	264	t07,37	1.0	
	1	over No	azhn.	
460	257	107.47	3.950	162.98
465	26416	107.58	- 0	1.0
		SOM Lay	Ver.	
465	253	106.95	1.950	t62 98
		High No	zzle.	
465	256	108.21	4,950	162.08
465	240	106,28		
Average	horse por	wer, 107 PA	100, or 90 2-1	to per cent
	Knigh	t Whoel-	- First Test	

Horse

The cubic inches of water in this test were reckoned on the amount of miners' inches used, allowing 1.40 cubic feet per minute for one inters' inch—this shows

77. ts per (	tille. Of th	te bower ur r	TIG MORE, TO	
		secund 35	·nt.	
460	244	100 7H	5.326	180.72

Average per cent, of first lest, 76 5-10. Average per nt, of second test, 71 2 to. These were the only tests ale of this which, the nozzles breaking and having

### Taylor Wheet

Wright on brakes, Ites.	Revolu-	Horse	Head of water over neir, luches.	Cubic ft. of water per min- ute.
400 312 %	184 254	66.91 72.46	4 975	163.211

Average per cent, of first test, 55 1-10. Average per cent of second test, 60 5-10. — Necada Transcript

# PACIFIC COAST GUIDE AND PROGRAMME OF THE KNIGHTS TEM-PLAR TRIENNIAL CONCLAVE,

PLAR TRIENNIAL CONCLAVE,
Compiled and published by Ira G Roll, contains 232
pages, is of convenient pocket size and comprises a
guide to all the preminent places of interest on the
coast. An interesting description is given of different
routes from the East to San Francisco; of the etimate of
the coast unit of San Francisco, with its special points
of attruction, its notable infiltings and its suburbs.
The book containes after, large littograph map of the
city, with the names of afrects, route of the procession
of Knights Templar [during the grant] parade), marked out angular temporal patting the grain parason, assisted out, and many prominent places indexed thereou. The pleasure districts, including some account of the mountains, rivers, lakes, watering places, niheral springs and natural wonders receive attention. Under the body of country a great deal of valuable. springs and natural wonders receive attention. Un-ther the head of catoping, a great deal of valuable information is given for those intending to enjoy outdoor life. The guide pertion of the book is concise and comprehensive. The work contains much informa-tion of interest and value to the pengle of the Pacific Coast and hastenesses.

tion of interest and value to the pears of the factored Coast and to strangers.

The book is printed mustly on fine threat calendered paper, and bound tandesmely with appropriate de-vices on the cover. Its very low price places it within the runch of all. Bound in the embossed cloth, with title, 76 conts; hound in heavy paper covers,

### A GOOD SHOWING.

The El Dorado Republican says: We have an abundance of cheap land, theup water power, cheap timber and obeap building stone. What we no need is a class of immigrants that can appreciate and take advantage of those natural advantages.

#### THE GHAND ARMY.

The vivid contrast between a host of settlers in a new constry and an army of invaders equal in number is sketched in an article in the Salt Lake Tribing of a recent date, from which we make the following extract:

The Minnesota journals assert that ten thousand people are passing through St. Paul weekly on people are passing through St. Paul weekly on their way to make honces in the West. Think of Iti Ten thousand a week, 500,000 per annum, passing through one city. What does that signify? It means that further west, where all is allence now, 2,000 homes will be planted next week, and probably 100 times 2,000 acres of land be put under oultivation, land that has heretofore furnished nothing save food to wild beasts. When the smoke rises over 2,000 new homes in a week, where a week before there was nothing but harbarism, it means progress. The voices of 10,000 men and women and children all at once sounding and driving back the numerorial echoes of the wild, in music which the angel in the sun will hear in his daily round and make a note of. It means that new cities are to be created, new temples built; it means that new thrones to industry, to learning and to order are about to be dedicated. When Napoleon, with the "Grand Army" of 500,000 mey started to make the conquest of Russia, all Europe was awed by the spectacle. There was a pomp and power about the movement which the then existing nallows had never dreamed of before. Five hundred thousand man, with eagles and plumes, with breast-plates and helmets, with horses, cannons, swords and guns, the terrible "Old Guard," the Marshais that bad each won his place by deeds of genius and glorious valor, and with all-and in effect doubling the actual number, by the tircless energy and superhuman resources of his brain—the wonderful Emperor. That was indeed a grand picture; so grand that the white winding sheet which was made to enfold it a few months later could not hide It. Rather, it was so grand that it will move on in everlasting panorama with the roll of the years, and cause the blood in young arteries to hrob faster as long as time lasts. But after ali it does not in thought compare to this army wi conquest which is sweeping through St. Paul. With this army is neither swords nor plumes, but the march is fairer nevertheless. The marshals are nobter than were the mighty men who gathered around their Sovereign. In hen of trumpet's blaro there are the scream and the beavy respiration of the locomotive; the marshala are Hope and Faith and Courage and Industry; in lieu of the cannons this army carries the plow; in lieu of the aword, the reaper and mower. The conquest is aimed at the wilderness, and the intention is not to tear down, but to build up. There is to be no Borodino. no Moscow in flames, no camping in the anow which to whole squadrons is to be an eternal bivouac.—Oakland Times.

### ARTESIAN WELLS

The following, from the Stockton Independent, makes mention of some interesting experiments on the "West Side:"

The question of irrigating on the west side of the San Joaquin river is one that has been discussed a great deal. It is known that a canal running near the foothills, which could carry sufficient water, would be a profitable investment. Lately experiments have been made with artesian wells, and it is thought that this plan of irrigation can be made auccessful.

Crow's well at Hills Ferry, is 668 feet deep and seven inchea in diameter. The flow of water from the well is sixty gallons per minute, rising to a hight of twenty-eight neches above the ground. Harris' well is 330 feet deep and seven inches in diameter, from which flows 200 gallons per minute, rising two feet above the ground. Lafayette Funk, who resides near Farmington, in this county, owns a tract of land of 3,000 acres, near Grayson, on the West Side. He is making arrangements to hore asveral wella on this land, intending to irrigate the entire tract with six wells. This ranch is three onlies long, and has a fall of twenty-two feet. Mr. Funk proposes to raise the water two feet above the ground at its highest side, and run it in canals wer the entire tract. He is willing to expend \$1,500 for each well, and thinks they will be profitable at that cost. Crow's well cost \$1,125. The charge for boring wella of that size Is lifty center per foot for the first hundred feet, and twenty-five cents per foot in addition to the bundred feet. This last experiment will be watehed with interest by farmers in that acction.

### THE BEST VAIDETIES.

G. G. Briggs, of Daviaville, Yolo County, proprietor of the largest raism vincyard in the Bate, has tested several varielles of grapes for raisms, viz: The Flame-colored Tokay, the Cannon-ball Muscat, the Muscat of Alexandria, the Muscatello Gordo Blanco, and has finally settled on the last named grape, the Muscatello, as the hest adapted for fraisins. The asbestine sub-lirigation system in Mr. Briggs' viveyard in Davisville, has been extended until he has now about ten miles of main concrete 12-inch pipe and some 200 miles of distributing pipe of different sizes, made of the same mustrial.

THE PLACER FOOTHILL SECTION-AT STRANGER'S OPINION OF IT.

As we approached Rooklin the country showed muro signs of verdure and tertility. A smooth sward of green grass covered the graceful slopes. The ground was everywhere strewn with granite bowlders; weird and fanciful in shape. Here and there pictures que clumps of three oak gave to the scene a decided parhi-like appearance, so pleasing and natural that art can add little to highler the effect. Here I noticed the first footbill vineyards.

A little further up, at Newcastle, many of the sloping hillsides are covered with well trained, thrifty vines. Occasionally we passed so near them that the fragrant breatly of the grape blossome came in through the car windows. How a neatly cultivated vineyard does improve the face of the country. And how pleasant it is to see the thrifty husbandman, industriously employed in laying out the country into a gavden. I cannot help thinking that the vine la the harbinger of a better civilization for California. I have uniformeriy noticed that vineyards and convfortable, tasteful homes go together; and when such homes embel-lish a country, we may be sure that order and culture are established. A nation, whose rural population is content to live in mean bovels, is certain to be behand its neighbors in intellect, in culture, in everything that distinguishes a civilized, from a coarse brutal peoplo. Let us then gladly welcome the advent of this new Evangel in California—for it is to these that we must look for the preservation and perpetuity of our moral purity as a people. In a short time we arrived in Auburn.

Not Oliver Goldsmith's "Lozeliest Village of the

Not Oliver Goldsmith's "Lozeliest Village of the Plain", but a very sweet mountain town and the county seat of Placer county, withal. I spent tho remainder of the afternoon rambling about the place, which by the way, has marvelously improved in appearance within the last few years

The business portion of Auburn is located, most unnocticully, in a deep guich where the miners first-located, But the rude gold-lunters struck hard pan long ago, and on the side of their old diggings a thrifty vuegard now smiles, giving promise to the "Wine that maket glad the heart of man." The and in this vicinity is a deep red grainte loam, admirably smited, I should say, to the growth of small fruits, regetables and wines. Very little irrigation is necessary and water for this purpose is abundant and obeap. When I first visited this place—nearly fifteen years ago—scarcely a fruit tree and not a vine had been planted. Now the whole face of the country is being rapidly transformed into a garden landscape. After supper I aut for an bour on the broad rushe veranda at the botel, watching the changing colors that sproad over the western sky. An Auburn sunset is a picture of sorene beauty.—Cor. Napa Register.

### FRUIT TREE CULTUHE.

The following is from the St. Helena Star: Now that the fruit-tree planting is about over for the eason, we would offer a little advice to new beginners as to their management. Young trees are treated as you would a bill of corn. Hoed crops will do in an orchard, but sowed crops will not. good plau to keep young trees mulched, and it is also good for old trees. Young trees for the first few years require good cultivation; old trees may require less; of this anyone can tell by the looks of his trees. If the color of the leaves is good, growth all right, and the trees bear well of fine fruit, they are all right, and need no cultivation; but on the contrary, if the leaves are pale and the growth feeble, and the fruit small and poor, something is the matter, which can most likely be remedied by the use of the plow and cultivator, with a gond by the use of the prowand cultivator, with a gene coat of manure. To judge of the condition of an orchare is much like judging of the condition of your stock in a pasture; if the stock is fat and sleek you know the pasture is all right. So with your orchard; if it is thrifty and produces well, it needs no further care. In all professions it is generally those who aim at excellence who succeed. In fruit growing the market is seldem everstocked with superior fruit; and those who, with good, cuitare manuring, thinning, assorting, and careful packing place the finest specimens before purchasers, obtain good prices, and ready sales, and as soon as their products become known, they are eagerly sought for on account of their excellence; even in abund-ant seasous. On the contrary second rate, scrubby, knotty fruit, fluds alow sale at a very low price.

### RICH IN GOLD AND SILVER.

The Fresno Expositor gives the following account of what it calls the greatest discovery of the age:

Last Fall there was discovered by a Mr. Beck, over the summit of the Sierras in Freanceannty, the largest and richest unice over discovered in the world. The ledge is two bundred feel in width and is three miles in length. It assays \$43,000 in silver, and is called the Mother of Oold. The ore resembles at a distance, when the sun shines on it, a mountain of diamonds. Several gentlemen of this city are interested in the discovery. A party of ten men, accompanied by Surveyer Davis, will start for the humanze some line next mouth.

# PACIFIC COAST LAND BUREAU.

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It is the cheapest and most desirable land now offered in this market, and we court comparison with any other land in the State. Sold, with water right and canal to each quarter section, in subdivisions any size, at reasonable prices. Payable one-fifth cash, balance in annual installments to suit.

For maps, circulars, reports and letters from resident farmers and vineyardists, and all surther intermation, apply to the

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Title, U. S. Patent. Oue-half mili trom the mouth of the Omain'a liver, and bounded on one stole by the river. There is on it, three and one-half militon leet of saw mill limber, consisting of pine and redwood, and 150 cords of wood atanting, bearde the saw mill timber, consisting of madroug and for One-half militon leet of saw mild and one mile from the landing. Four acres of line potate and very militon of made of madrough and of One-half mile from any mild and one mile from the landing. Four acres of upinall. One dwelling house of the rooms, one boarding house, one saloon, doing a fine business, further than the militon of the board of the boar

21,3350 Prove Diversity Station, fronting on matter road. The acress of the land under good culture thun, and the behave heavily tunbered. Place leaved into two fields. Enough tudeer on the place to carly pay for It. Confortable bons of Eve rooms, said citizete house and a corn-crib. Well watered by running mening. Healthy locality, and spientist place for punitry.

15 G. OOO 480 ACRES OF LAND, THREE Country 300 arres in pasture land, and 20 area under entityation. Good from the land, and 20 area under entityation. Good house, barn and other limitings. To go with the place, 4t head of slock, 8,000 posts, 30 cords of peaked sak would. Note placely good chigatic, and only tao inlies from post-fice. Plenty of the water, and fish and game in abundance.

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#### A PRACTICAL TEST.

A correspondent of the Anburn Argus, writing from Colfax, states that less that a year ago the residents of that vicinity commenced agitating the question of tarning their supposed worthless hinds to account. writer says that Messrs. Hayford & Moore were among the first to make a practical test. They bought 80 acres of dry sale hill hand, on which stood a second growth of pine from one to twenty inches in diameter, besides a dense growth of underbrush through which it was almost impossible to pass. They began clearing u 40-acre putch last June by first entting off everything, then burning the brush and with horses and stump machines they cleared the land in a thorough manner. Plowing, harrowing and preparing the ground then followed. Cuttings of seven varieties were then planted, viz.: Mission, Purple Damasens, Rose of Peru, Muscat, Zinfandel, Floming Tokay and Greenache. The cuttings were all steeping in a prepuration made of cow-manure, floom and water. They then received a sprinkling of bune ilust. Considerable interest is manifested in the enterprise, not only because it is the heginning of what is hoped will be. come a leading industry, but also because it is a question here whether cuttings planted on dry side hills will grow without irrigation. That routed vines thrive and bear excellent fruit without water is an established fact. No expense will be spared to assist nature in the way of cultivation. A force of men and horses will be kept on all sammer. In the meuntime, the placky enterprise of Messrs. Hayford & Moore has stimulated others to follow their example, and about 1,200 acres of land equally well adapted to grape culture have been longlit in the immediate vicinity, and all are clearing their ground preparatory to planting next sea The laud is all bought in small lots of from 40 to 160 acres. This angurs an increased prosperity for Colfax in the near future. There are yet thousands of acres which may be either obtained by purchase from the railroad company, or by pre-emption from the Government. The most of the mil-road land is bell at \$2.50 per acre, and generally speaking, it is more desirable for one with money, as the title is perfected as soon as payment is made, and can be sold again at any

### GOLD PROM BLACK SAND.

Almaria B Paul, President of the Red Hall Hydraulic mine situated in this county, has overcome the difficulty of extracting the gold from the black sands that are washed away in the streams from the mines. The quantity and quality of gold found by him surprised all mining experts, and his enterprise promises to richly reward him. The Oroville Mercury says of this subject: From what we have recently seen we are confident that but a few years will elapse before there will occur a complete revolution in the methods of gathering gold on the Pacific Coast. The royal metal is much more abundant than has generally been supposed. Edison, when he made his test of black sands taken from the vicinity of Oroville that were so rich in gold, was not mistaken in his estimation of their value; his failure to make them profitable was only because he had not yet learned the art of separation upon a practicable scale. We are now pretty certain that this difficulty has been overcome, and in the near future the great hulk of our gold product will come from the sands that have heeu swept down the streams.—Gridley Herald.

### THE GOLD HEUSSON.

From six roastings, a little less than a ton each, of sulphurets and selected sulphureted ore, there was cleaned up at the Gold Blossom mine, last Thursday, 150 pounds of amalgum, which being retorted yislded 50 pnunds of gold bullion, and this did not include what went into the settler, estimated at nearly one-This, rating the bullion very low, would be nearly \$2,000 per ton, and proves conclusively two things: First, that the heavy sulphareted ore of that mine, of which it bears much, is exceedingly rich in gold; and second, that the formace they have built for the purpose of reducing the sulphurets and the sulphareted ore is a success. In addition to these results, which are encouraging of themselves, the ore put through the mill over since the mine started up, about the first of the present year, has yielded quite sutisfactorily.-Placer

### ADVICE TO FARMERS.

In making calculations for next year's crops, we trust our farmers will profit by the experience of the past. They need not be told that the system of cultivating their lands in grain crops for years in succession will exhaust the fertility of the soil. This has already been done to a great extent on many farms. They need not be told that the great wheat country of the East, much of it new land and every year increasing in area, will more than supply the demands in the markets of the world. We used not tell them that to raise a variety of crops, and to change crops every two or three years, and by mising stock on their farms and feeding most of the produce raised thereou, will not only enrich their lands but afford them a good market right at home and better prices for produce so employed than to the markets of the world, taken one year with another. We need not tell them that if cuttle, sheep and hogs can be raised in Arizona, Nevada, southern and northern California and freighted to San Francisco, Petalumu, Santa Rosa and other points near the bay at a profit, it will surely pay our farmers to raise the same kind of stock right at the market where they are wanted. All these things are known by the farmers, and it is about time they should begin to be influenced in the right direction by that knowledge. In the raising of fine horses for market our farmers have done and are doing splendully, and the receipts from the sale of horses alone, within the past twelve months. of from eighty to one hundred thousand dollars show how well it has paid them. Now what we want is more fat beef, mutton and hogs. It will keep the land up and pay better than No man knows nntil raising grain for market. he has tried it, how much feed can be raised on 160 acres of land, or when to feed stock how unch hetter it will pay him one year with another. We already have the best horse market on this coast, and with a little energy and change in our mode of farming, we can soon farnish the market with the best beef, mutton and pork .- Petaluma Courter.

### THE DATE AND THE PRUNE,

Among the fruit trees which might be successfully grown in this section is the date palm, one of the most enduring and fruitful of trees. It may become as common and as fruitful in Southern Colifornia as in its native Suhara, if only our fruit growers will give attention to its planting and culture. other trees whose introduction and cultivation should awaken more interest is that of the prone. Experiments with this tree have been most successfully made in different parts of the State, and in size and deliciousness of flavor the fruit produced in California far exceeds that of the imported varieties. The Hangarian variety is preferred by some, and is doubtless as fine as could be obtained. The demand, in San Francisco, for California princes already exceeds the supply. When cured, this fruit may be shipped to all parts of the world, and like the date it is among the most wholesome of fruits. We have seen those who care nothing for the imported prune, enjoying, with all the zest of an epienre, the delicious finvor of those grown in the of Southern California. It is to be hoped that our orchardists will give more attention to the cultivation of these fruits, and that they with yst be found in greater abundance among the supplies of the tropical and semi-tropical fruits of this section .- Los Angeles Times.

### YOLO AND SOLANO CROPS.

C. L. Kinkade, a farmer who resides near Darisville, was in Sheramento, Monday, and says the crops from Dixon to Woodland and in fact in every portion of Yolo county, have not looked so well not promised such abundant harvests, in the past as they do at present. A few weeks since a bag appeared in the grain fields, and the farmers were fearful that they wontit entirely destroy the crops. The last heavy rain, however, completely destroyed these insect pests, and the farmers are happy and anticipate abundant harvests and golden returns. The adobe soit in the aeighborhood of Dixon, which could have been purchased a few years ago for five dollars per acre, has by a system of summer-fallowing been made very valuable, and this year will yield at least forty hnshels per acro. - Record. Union.

Subscribe for Tun Resources of California.

#### SILK CULTURE.

It will interest many, who have been study ng silk culture, to read the following from the Santa Barbara Press:

Great efforts are being made by the Silk Culture Association, of this State, to aronse an active interest in silk culture. The society bus now ready, for sale or free distribution, a large quantity of silk-worse eggs, and the secretary, Mrs. E. P. Keeney, will answer applications for the same, or by letter or circular supply practical information to parties preparing to start cocooneries. Last year silk was raised in twenty California counties, and each was the success in quality that samples are to be sent to Philadelphia to compete for the national prize of \$500, offered this year for the best American cocoons. The coming year will, perhaps, he a sort of test of the aptitude of our Silk farms are being planted in many of the middle and southern counties, and us an incentive to the labor, 25 cents per pound more than the market value is offered for all cocoons raised here. Should private enterprise zealonsly aid public endenvor, there is room for the prophecy that this valuable staple of com-merce may be added to our list of exports. Santa Barbars should not wait tor other counties to take the initistive in this new industry. and it would be a public benefit if those who have leisure and proper facilities would make a series of careful experiments. The climate here is almost identical in temperature and other material conditions with that of some of the finest silk-producing localities elsewhere, and we might excel them, as far as we have in the matter of fruit and wine. Where olives, the mulberry and vine flourish as here, the daughters of the land should be able to "walk in silk attire" spun from gossamer webs tended and reeled by their own delicate fingers. Those who are experienced in the details of silk culture describe it as an extremely fascinating employment, and one in which ladies or children can do better than men. In Southern California, as elsewhere, is negently needed any work that might prove remnnerative to hoys and girls without overtaxing their strength. For this reason, if no other, the subject should be seriously considered and the silk-worm given a chance.

### HOME WINES.

One of the most notable features of California industry is the rapid extension of vine-Twenty years ago Sonoma valley hoasted of but a few acres of vines, and ent a comparatively small figure as a wine-producing district until several years latter, when her erop reached such dimentious as to demand a place in the markets. Within the last ten years, the growth of her grape industry has heen something marvelons. The upper part of the valley is now almost one continuous sea of vines, stretching away on either side upon the foot-hills, and still the good work goes on; extension and improvements are still the order of the day. Many of our vintners are getting rich; selling off parts of their large ranches, thereby making room for new settlers, and paying more attention to the proper cultivation their land. Land which was heretofore nsed only for pasture is now being cleared and set out in vines. Whest-growing in this valley has been almost entirely superceded by grape growing and wine making. In order to secure a respectable standing in the markets, our wine-makers have had to contend against many serious obstacles, but they are fast being overcome. To present the native champagne to his gnests is no longer considered beneath the dignity of a gentleman of means; and as for claret, port and sherry, we ask no odds of any foreign production. -Sonoma Index.

### THE WONDERS OF CALIFORNIA.

California is wonder land. It was only the other day that we made mention of the discovery of evidences of a buried forest in San Bernardin and now we read that a primeral redwood forest has been discovered in Ban Luis Obispo county, near the headwaters of the Rio Sisquoe. Also a magnificent waterfall, where the waters of the Sisquoc pour over a precipice six or seven hundred feet in height. The wonders of the Golden State are not half known. Within her borders are many are not half known. Within her borders are many apota never trod by the foot of man. May it not be possible that some of them contain objects of interest even more striking than any that have yet been discovered within the short apace of time—a half century or less—since the adventurous Americans Orst set foot on her soil?—Los Angeles Mir-

### SOMETHING ABOUT SALMON FISHING.

The following facts and figures, from the Vallejo Times, convey some idea of the growing importance of this comparatively new in-

There are employed in the salmon fisheries, between San Fraecisco and Sacramento, about 800 boats. Each boat is manned by two fishermen; there are, therefore, 1,600 men employed in catching salmon between the two points named, or in a distance of 120 miles. are 250 boats in the Stmits of Carquinez and Vallejo bay. There are nine canneries along the river and Snisun bay, and several in Sni Francisco, cuploying, on un average, from 60 to 80 men to each establishment. There are, therefore, no less than 2,500 men employed in taking salmon and canning them for home and foreign consumption.

The cost of a fishing outfit innges from \$450 to \$800. A suitable boot can be purchased for an average price of \$260. The nets in use up the river are comparatively small, and cost about \$200; those used hereabouts will average at least \$300 apiece—they are of much greater depth, and contain a great deal more material.

The average daily catch varies according to the season Last season, the salmon ascended in such numerous quantities that the fisher men could have caught each day, per boat, for a period of six weeks, over 100 fish. But the markets were glutted, and us it was impossible to dispose of that number, they contented themselves with catching merely enough to supply the demand. This senson the average daily catch per boat does not exceed twenty fish, and the supply is not sufficient to keep the canneries running at their full enpacities. The price, of course, varies according to the supply and demand. Last year the canneries paid from 40 to 65 cents apiece for fish. This year they agreed to pay 50 cents, but the Collinsville canneay raised to 70 cents, and now the Beniela cannery offers \$1.00. A number of boats fish below Mare Island, but the fishing there is difficult, owing to the roughness of the water. Vallejo bay is found to contain many fish, and within the last two years a place above Vallejo, on Napa river commencing at what is known as Slaughter House Point, has become quite a favorite fishing ground. The grounds up the Sacramento river are also extensive, and thousands of salmon are caught there during the season.

### A FAVORED LOCALITY.

A correspondent of the Rural Press has the following concerning a portiou of Butte county: Having been through many parts of this State, seldom have I met with a more favored inland location than between Marysville and Oroville, especially in the foot-hills. There is a varied rich red and, in some places, gravelly soil. This characterizes the hand around Moore's station. Here good rich bottom wheat hand in Butte county, close to the railroad, and fifteen to twenty miles from Marysville, is to had at \$20 per acre. Superior grape-vine had is available at \$7 to \$15 per acre, and there are even better chances on shares. A. W. Gould, one of the leading extensive land holders and rich men, is also willing to give land on the most liberal terms to parties seeking homes of from five to a thousand acres. The climate, for an inland location, can not be surpassed. It is good and healthy. There is good water from the numerous abundant springs rippling from the hills, and there are good wells in the valleys, and two finmes. Water ditches can be brought in. There is a lumber, sash and saw mill going up, and a distillery or winery finished already, and other industries are in contemplation, so that the little village, with its good farming country and manufactories now in progress, is certain to grow rapidly.

### GRAPE GROWING.

Grape growing is receiving more attention this year among Ban Joaquin farmers than ever before The Stockton Imtependent says:

There has been unusual activity among farmers in the direction of setting out vines. It is claimed that some portions of the Sua Joaquin Valley can-not be excelled to cheapness and adaptability of soil for the grape, in the whole State of California. The climate is helieved to be admirably suited for vineyards, as for years the frosts have not destroyed vines lo any extent. Within a very short period over 700 acres have been planted to vines, and at least 3,000 sores more have been selected for the purpose of cultivating the grape before another

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New Orleans Ins. Ass'u ..... New Orleans, \$573,216.

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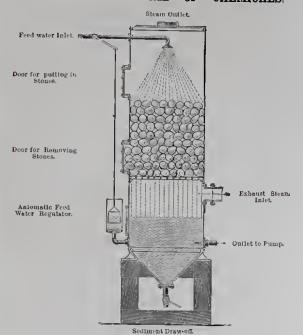
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### A RAPIDLY-GROWING SECTION

The Pomona Times, Los Angeles county, thus speaks of the rapid growth of its principal town and surrounding neighborhood.

Pomona has not grown to be a city yet, but as it has built up so rapidly and has already taken its stand among the important towns of Southern California, we are led to reflect on the cause of this sudden growth and the rapid advancement of its aurroundings. There is probably no portion of the Pacific Coast where unturn has wrought so finished a piece of workmanship, or so nicely blended grandour und theauty as in this particular locality. On the North mountains are piled up, 10,000 feet high, pyramids of rock and soil, with which is mixed enough of gold to tempt the hardy miner to prospect their intricute canyons. On the south are undulating hills-grazing range for tens of thousands of sheep and cattle-and lying between, the great Pomona valley, with soil that invites the agriculturist, and climate that gladdens the heart of the invalid, and heanty surpassed on earth. No wonder then, that Pououa has grown from a sheep herder's camp to its present size in so short a time; or that the valley has been transformed from a wild, unoccupied solitude to a peopled land of orange groves, vineyards and fields of waving grain. Nowhere in the State is there a smuller valley, and nowhere else can be found a greater variety of productions. Everything one he grown here. In a drive of five miles can be seen orange, lemon, hunana, fig. olive, prune, peach, apple, pear, cherry, quince, plum and every variety of grapes, also fields of larrley, wheat, corn, etc. All of which go to show why this town and valley are so rapidly building

### MINING IN EL DORADO.

It now looks very much as if the miners around Grizzly have struck the fountain and source of all the gold that filled the river heds and gulches, and brought eager thousands to our State in early days. Every week brings new developments, and the permanency of the mines is assured. It is true that some of these mines were worked in early days, and afterwards had to be shut down, but the reasons for this are easily discovered. In the first place, extracting the gold from quartz was not as well nuderstood as now. Amalgamuting was very loosely managed, and sulphurets that Amalgamuting are now worth \$300 a ton were then thrown away. Only the ore near the surface could be mined then. Giant powder was nuknown, and the hard rock below water level was too wet to blast with black powder. Good pumps were not obtainable, and mining machinery was rude and insufficient. Ore worth less than \$50 a ton would not pay to mill. Now \$5 ore can be milled at a profit. The improved processes of amalgamating make it possible to save even the finest of gold. The sulphurets are also saved and reduced. Steam pumps keep the mines dry, and make it possible to work them to any depth with only the additional cost of hoisting the ore which, with the improved machinery, is very slight .- Placer Democrat.

### GOOD GRAPE LAND.

Prof. E. W. Hilgand, in a recent report on the climatic and agricultural lands of the Pacific Coast, pays the following tribute to a large section of Culifornia:

In the country lying northward of the bay, the soils formed by the emptive and volcame rocks assume increasing importance, and constitute the leading features of the grape growing region of Sonoma, Napa, Soluno and Yolo counties, us well as further north, in Lake and adjoining portions of Columnial Mendocino. Here the lower portions of the mountain sides are frequently constituted of the heavy tertiory and creticeous material which form adobe, while the upper portion consists of igueous rocks yielding lighter soils, aften deeply colored with iron, and more expressly adapted to fruit culture. The valley soils are, of course, a mixture of both, and it is on such composite soils that enormous yields of from twelve to fourteen tons of grapes per acre are 000. Part of this is due to my two sons, both sometimes obtained.

### A LARGE VIELD.

Some of Stockton's grain speculators have been estimating the grain yield of the San Jonquin valley for the season of 1883. Careful calculations estimate the yield 25 per cent, larger than 1882,

#### ORANGES IN RUPPE.

Au Oroville correspondent of the Sacramento Bee speaks of orange growing, in the footbills of Butte cumuty, as follows:

The valley land, or that so well adapted to grain and luly, is not so valuable for the orange as the warmer yet higher foothill land, It is within quite a recent period that the culture of the orange has attracted attention here. There are trees twelve or fifteen years of ago in this vicinity-Oroville-but it is only within the past two years that more than enough oranges for home use have bren grown. Two yeurs ago 1,000 oranges were offered for sale. Last year not less than aix times that many were sold. The orange here ripens quite early. Some were ripe in November and many in December. Hundreds were sold here for Christmas trees, Most of the oranges are seedlings that so far have been planted. The Naval, St. Michal and other celebrated varieties have been trird and found to do well. The red hill land seems well adapted to the orange trees. The land can be hought for from \$6 to \$10 an acre. Large tracts of this land can be irrigated at a moderate expense. The srea for the cultivation of the orange in Butte is not limited, as it extends along the hills a distunce of not less than eighteen or twenty miles, and in width not less than twelve miles. The fruit grown is very fine, being free from mildew or rust, and presenting a bright and attractive ap-Settlers desirons of growing the pearance. orange will had they can grow good fruit that will ripen early.

#### A PAVORED CLIME

When we read of the terrible cyclones which sweep across the country east of the Rocky Monutains, leaving fell destruction and death in their wake; such, for instance, as that which visited the Mississippi Valley lately, totally destroying the town of Beauregard, leaving a portion of the town of Wassen in ruins, and damaging more or less numerous other towns in its desolate course, killing some forty or fifty persons outright, and wounding over 150 others, more or less; we are forcibly reminded of the great bleesings enjoyed by the people of California in being exempt from these terrible thunder storms, cyclones and tornadoes, which affilet the people of the East; and for which exemption the people of this State have cause for thankfullness to that Providence which gives us genial skies, and protects us from the warring elements which lay waste the country on the Atlantic seaboard. We are justified in bragging of our beautiful and genial clime of the placed Pacific. We are anxious that our brethren at the East shall know and realize the fact that ours is a highly favored State, and we open our doors and hearts to all who may seek a home in this land of safety, peace and prosperity, -Oakland Trbiune.

### COPPER IN CALAVERAS COUNTY.

Copper mining is one of the resources of Calaveras, and the San Joaquin and Sierra Nevada Narrow-Gange Railroad will, unquestionably have the effect of stimulating effort in that field. Already signs of new life are visible in the copper mines of Campo Seco, the northern extremity of the Coluverus copper belt. Au extensive copper formulion along the western verge of the foothills was thoroughly explored more than iwenty years ago, and nearly \$5,. 000,000 worth of ore has been taken out from the mines at Copperopolis alone. The ore ex-tracted was of sufficient value to warrant transportation a distance of 35 miles by teams, to title-water, and its shipment to Wales, for reduction. There is still any quantity of ore, of grades inferior to that shipped years ago remaining, and which only awaits cheaper means of transportation to enable parties to handle it with profit, and, sooner or later, every pound of it will be removed -Culaveras Chronicle

### PROFITS OF FARMING IN BUTTLE

Our attention was called to the profits made some of our farmers. Said one farmer "Six years ago I was not worth a dollar. began by reuting hind, and am now worth \$10,old enough to doulmost men's work in the field."

Another, five years ugo, when he moved into Butte county was \$6,000 in deht. He has paid off his flebts, hought a rinch, and paid \$5,000 on it, and has his stock, feed and farming implements, besides a growing crop. He made, in the five years, not less than \$16,000 above all expenses.—Butte Record,

#### THE DIVIDENO RESULTS OF THE MIN-ING INDUSTRY FOR 1889.

The infinitrial and economic importance to the The finite trained of the precious metals is by no means to be measured by the interesting to fall death or profits to that owners, which may result, year by year, from their exploitation. The production of \$1,150,000,000 in gold by California, between 1848 and of \$1,150,000,000 in gold by California, between 1848 and the close of 1882, is in no who to be gained in its becomming consequence, by the actinal share of it that has accrued in the way of profit to those who, either by their labor or capital, extracted it from the earth. Nor should the product of the Consentexck lode, variously estimated at from \$400,000,000 to \$316,000,000, be considered solely from the point of view of the dividends which have reached the pockats of sinreholders of various corporations. The consequences of our product of the precloss needs sates also have the dividends which have reached the pockats of sinreholders of various corporations. The consequences of our product of the precloss needs state 1849 reach immeasurably above and he youl any sum total of actual profit derived from its extraction by those timusdately engaged in any connection with that inhinisty, and to an derived from its extraction by those immediately en-gaged in any connection with that inhisity, and to an extend not approached even approximately by the product of any other branch of human behavior imagine the consucercial and indistriated condition of the United States, and indeed of the world at large, without having bad the steady situating during the last 30 years, of the immense amount of guilt derived from the placers of the Parlite Coast, and the discovery of which led indisputably to the search for and discovery of which led imitabilitably to the scarrs in an alcovery or gold in Australia. That discovery, happening as It dil, at a time of world-wide industrial and commercial adversity, immediately served to restore vitality into every workshop of Europe and America. At the same time it opened new homes for the starving people of Europe, and new regions for linear in tethygence and energians. gies to develop, with a profitable scope and reach hither-to unknown. The three or four railways that stretch across our national territory, from the Atlantic to the Pacific, with flues of juighty ocean steamers that speed to and fro across the Atlantic, giving almost daily com-munication between Europe and the United States, are direct consequences of the production of so large an amount of gold in California, as much so as the exten-once of such a city as San Francisco upon the Pacific Ocean. Even the facts that California has now about 110,000 acres to vineyards, of the average value of at least \$200 per acre, and that the State possesses one-tenth of all the sheep to the Furted States, may be rightly ascribed to the previous production of so much gold in that quarter—And to this cause also to to be attributed the commercial result of shipments from San Francisco, of wheat and flour, between the 1st of July, 1883, and March 7, 1883, to the vains of \$21,800,550. But inde-pendently of these agricultural and other incidents, as we may maintain, to the production of gold and silver by the States and Territories of the Pacific slope, the actual dividend results which have been reported to the pages of the Manag Record during the tast five years, pages or the fining record during the last five years, make a most antisfactory showing by the industry of mining for the precton metats, as long be seen.

Last year, for example, the divisional pant by incorporated gold and silver mining companies alone were sollows.

	bliucs, Amount,
Arizona	
Colorato	16 2,326,650
Caltfornta	
Dakota	
Montaus	
Nevada	7 663,262
Utah	
Idabo	
Georgia	
New Mexico	2 204,000
Total	
Mexico	

In this we have included certain Mexican owned and worked exclusively by American capital, under American organizations, excluding which, however, we have \$11,639,975 as the dividend result upon a product for the year, as reported by Mr. J. J. Valentine,

Gold		 														·		\$20,011,318
811ver		 	į,		 	×	i	ï				·				á		48,194,029
Lead	1 4 1	 • 1	٠	 ٠	 	٠	٠	٠		•	٠	4	٠	• •	1		٠	8,008,155

Thus the dividends paid simply by theorporated com-panies during 1892 have amounted to 11%, per cent, upon the whole product of the todustry, while no ta-considerable part of the product has these derived from intee not owned by incorporations, but individuals or private companies that have made no report of their dividends or profits.

For the five years ending December 31, 1882, the divi-dends paid by these incorporated companies and the product of the mines of the country, have been about

		* Augmot of product.
1000		\$78,976,000
1878		
1879	6,200,688	72,689,000
1880	. , 9,509,00 <b>0</b>	76,434,000
1881	13,676,000	000,000,08
1882		85,152,000

\$51,425,000 \$192,551,000 ln the face of such facts and flattes as the foregoing, we trust to their less hereafter of the precariousness and alleged unprofitableness of the bushness of mining for the preclous metals.—Coc. New York Mining Record

### GOOD ADVICES

GOOD ADVICE:

The Sun urges the farmers of Colusa county to stack their straw, and adds: We would like to see some one try the English method of stacking: They stack straw and green grass, just out, in layers. Say six inches of green grass to three feet of straw. This grass corres in the stack, and sends the second of the straw of the straw of the straw. its aroma all through the straw so as to give it all the flavor of huy, and it also adds growly to the strength of the straw. Stacked in this way with freshly-cut alfalfa, a straw atack would be almost as valuable as lay. The English save all their atraw in this way, and in that we climate the straw cannot be nearly so good as ours.

#### THE ORANGE TRADE.

From the following, taken from the Los Angeles Herahi, it would seem impossible to overdo the business of growing oranges

news of growing oranges. The steady expansion of our orange groves has trequently caused the question to be mooted in this section as to whether the husdiness is not overdime. Eleven years ago, when Northoff whote the remarkable series of betters to the New York Tribane, which were afterwards embodied by high him a book devoted to Calif afterwards embodies by little in a book devoted to California, the orange producing section of this State was comparatively restricted in area. Los Angeles county was the main producer, and the producthor even here was limited to the Pueblo, the San Gebriel valley and out at both San Bernardino county a few graves, out at out San Bernardino, were the only producing regions, while the few oranges grown lu San Diego county gions, while the new oranges grown it as Diego count, were raised on Col. Cave J. Conte' Guijome ranch. Since then a great change his come over the orange situation. In Los Angeles county, in addition to a great extension of the old and famous grows of the vally proper, and of the San Gabriel valley, in Pasadons, hundreds of thousands of trees have come into does, hundreds of thousands of trees have come into bearing, white Westminster and Orange, Santa Ann, the Dinario and Azura, and a score of other orange producing sections, have established themselves as formulable rivals of the older groves, in many instances printing oner fruit than they. We probably risk nothing by assuming that the orange production in Los Angoles county has certainly doubled, and perhaps trobled since Northcoff gave such an entiring account of the profits of orange culture.

The advances in the citrus fruit culture in San Ber parding county have been even greater, relatively. When Northoff was in this State, Judge North and a few columbrers had but just engaged in their experiment of reclaiming fine bleak sands where livershie now stands and converting it tuto a seint-tropleal Paradise. Today Rivershie is a large producer of a very superior class of oranges. Even San Diego has entered the field in a ru-cet, and in the Chollas. Paralise and Sweetwater valleys, and on the Kimball runcho, at National City, is demonstrating the shiftly to make herself felt in orange production. [Add Jamul, Cajon, Spring valley, Santa Marla, Fall Brook, Pala, and several other sections] This fact was proved the other day by the dispatching of a full car-load of San  $D^{1}$ ego grown oranges to the East. This is a modest but noteworthy justance of how the area of production has widened during the past

Are we, then, prepared to adout that there is danger

of an over production of this paized fruit? Most em-phatically not, and for the following reasons: While the production has increased to the extent we have outlined, the fact must still be horne in mind that the belt of country, even in Southern California, capable of producing the orango, is very limited, the quality of the fruit is largely dependent upon the im-mediate local climatic and other environment of the groves. We can take the impuring to extensive tracts in the heart of Los Angeles, where the orange trees ought to be grabbed out, the cold, compact and repetiant sail being utterly unfit for this fastilities glant. With only a limited section of the United States adapted to the growth of the crauge, and only a fractional part of that limited portion available for the growth of fine fruit, we have no besitation in saying that there is tudiniely more danger of glutting the polato than the orange

But, while we fearlessly take our stand on the posttion that the crauge market cannot be glutted, on the other hand a bushel of inferior cronges is more than it will take with any profit to the grower. It is worse It will take with any profit to the grower. It is worso than fully to encumber the ground with frees which produce a sort of orange militim. All such groves ought to be at once hadded with superlar grades of the orange; and if, after this has been done, the soft is found to be intractable, the trees ought to be cut down and the ground planted in altelfa, grapes or some other erop which will yield an income. Owing to the fact that the Los Angoles orange is at

Ita best when the Coast, Florida and Louisiana oranges have been cleaned out of the unriest, the East will take overy good orange that can be raised in this country or acction. Since the establishment of the liberal fruit schedules of the Southern Pacific Ratiway there has been no instance of the failter of the Eastern market to absorb a shipment of our oranges. San Francisco, which issed to be the solo recourse of our orchardists, now only receives the refuse portion of the crop. The only instance of the price being unfavorably affected by the amount of the shipment East was when three

by the amount of the shipment East was when three car loads from Los Angelea arrived in Chicago on the same day, and even then the price was only momentarily lowered, the consignment having proved quite remunerative. Our ability to supply the market at a time when our orchardists will encounter no competition from any potni is a priceless advantage.

The magnitude of the demand for this fruit may be best innteratord by a statement of the fact that the shipment of aranges from Messlim, and three other Italian ports, averaged, for a decain, fully \$25,000,000 a year in value. The fruit is a stagle article; and, with the precaution of sending forward to the new and highly-dearable markets in the East, which have been created by our radiway extension, nothing but first-class armiges, the domaind will increase in a far greater ratio than it is possible to attain in their production.

### THE DERBICO.

Parties who recently visited the Derbee drift mine say that the new bedrock tinned has been connected with the winze from the lower shalt, This timinel is about 2,700 feet long, and there are numerous drifts from it. About 100 men are em-ployed, and the force will be largely horeased soon. Our lufurmants says the banks of gravel are rich in gold, and they are so extensive they can not be worked in twenty years. They saw about a peck of gold that had been cleaned up lately.—Nevada Transcript.



HROAD GAUGE.

### Summer Arrangement.

Commencing Wednesday, April 18, 1883, And until further notice, Passenger Trains will leave from, and arrive at Sun Francisco Passenger Depot (Townsend St., inducen 3d and 4th streets) as follows:

8. P.	DESTINATION.	8. F.
8:30 A, M f 9:30 A, M, 10:10 A M, * 9:30 P, M, 4:25 P M, (* 6:15 P, M, 11:30 P, M, \$11:45 P, M		6:40 A. M. * 8:10 A. M. 9:00 A. M. * 3:30 P. M. † 4:50 P. M. † 7:50 P. M. † 8:15 P. M.
8;3tl A. M. 10;40 A. M. * 8;30 P. M. 4;25 P. M.	.Santa Clara, San Jose and Principal Way Stations	9:03 A. M- #10:02 A. M. # 3:35 P. M. 6:00 P. M. † 8:15 P. M.
10:40 A. M   * 3:30 P M.	Gilroy, Pajaro, Castroville, Salimas and Monterey.	9 t0 02 л. м. 0 110 г. м.
10:40 A M	. Hollister and Tres Pines }	0:00 P. M.
10:40 A M * 3:30 P. 31.	Watsonville, Comp Goodull, Aptos, New Brighton, Suprel   Camp Capitola   ami Santa Cruz.	*10:02 a M. 0:00 P. M
10:40 A. M.]	Solutind and Way Stations	6:00 P. M.
4.7.90 + 11	Monterey and Sonta Cruz.	14 0 PLB 9

Stage connections are made with the 10 40 A. M. Train, except Piscaphus Stages via San Maten, and Particle Countries S. Rados Stage via Sania Clara, which connect with 8:30 A. M. Train.

COMMERS S. RIVOR Slage via Sanla Clara, which concet with \$30.a. m. Train.

SPECIAL. ROUND-TRIP. TICKETS—At Reduced Ration-to-Proceedings Montrey, Apolos, Soqued and Santa Cruz; also, to Gilruy, Paralso and Paso Rolles Springs.

EXOURSION TICKETS—Sold Saturdaya and On San tay mornings—good to return on Monday-to-Santa Clara are San Jare \$2.50; to Gilroy \$4.00; to Montreys or Santa Cruz, \$510, and tepture plan points herewen San Francheco and San Jose; also to Gilroy Hot Springs, \$6.00.

SUNDAY EXCURSION TICKETS—To either Montrey or Santa Cruz, and return, \$3.00.

TROSET OFFICES.—Passengter Dupot, Townsond street, and No. 2 New Montgomery street, Paines Hotel.

A. C. BASSETT,

Superintendent.

But Tillian Divisions and the East, see For notice on Southern Divisions and the East, see

For points on Southern Divisions and the East, see C. P. R. TIME SCHLDULE

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ARABIC Thursday, June 280	iti.
OCEANIC Tursitsy, July 101	
COPTIC Saturday, July 21	
ARABIC	
OCEANIC Thursday, September 270	th.
COPTIC Thursday, October 11:	th.

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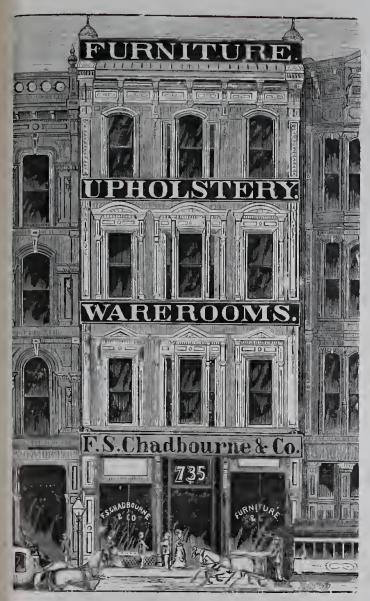
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#### HUMBOLDT COUNTY'S OUTLOOK.

In speaking of the bright future of this prosperons county, the Democratic Standard says:

Humboldt County is at the very threshold of a period of unparalelled setivity and progress. Tho spell is broken that has so long held her in abey-ance. The inexhaustible wealth which lies in her natural resources has at last aroused the attention of both capital and labor, and it requires but the combined application of these two forces to make Gumboldt, in a short time, not only the richest county in California, but in any of the United States. Natural causes and events have conspired to bring about a condition of things which is destined to promote at an early day commercial transactions reaching a magnitude of which but few lisve any conception. With our Port of Entry, have much structed access to the commerce of the world. Steps are being taken to inaugurate exten-sive shipments of lumber to China, Japan, Australia, the Islands, Mexico, and the South American coust. Orroumstances are transpiring which make it more than likely that our redwood will soon find an avenue through which to reach the eastern markets. When this is accomplished the demand will be regular and unceasing; It will be like pouring water into a sieve. A new interest is springing up as to the availability of our foot-hills for fruit We have now five logging railroade in active operation, with two more projected for the present year. A broadgauge railroad for general traffic, to connect the great Ecl River Valley with the hay and ocean commerce is now under a rapid course of construction. New and extensive lumbering mills are going up, and others are in contemplation. even at this date the project of connecting Hiimholdt hay with the railroad system of the State is being earnestly considered by parties interested, the initial point and route offering the most difficult question in the problem.

This is no painted picture, but is real and tangible as presented. The forces of labor, cupital and thought are now at work to push all these enterprises and projects to a reality. Humboldt bay is the safest and most completely land locked harbor on the coast. Trinidad can float and land the largest versel in the world. What more elements and advantages coule we sak that would conduce to our prosperity and rapid progress as a producing, manufacturing, and commercial community?

### FRUIT CANNERY.

There is no more desirable point in the State for the establishment of a fruit cannery than Napa City, or in fact most any point in Napa Valley. an investment it could not fail to bring handsome returns. Every condition is favorable for such an investment, and why is it that capital ever on the alert for remunerative investments has not seen these favorable conditions? We have in the county abundance of choice fruits, and in three years there will be an increase of a liquidred per cent. above that now produced. A large acreage of peaches, pears and apricots were planted last year and this year even more than last. As matters now stand the canneries of the State, outside of the county, are buying up our fruit and realizing a handson ear engaged fruit six months alread of the aea

We have the fruit, the easy access to market, the local capital, the labor, and why not the wisdom to establib such an enterprise? Let some of our dormant local capitalists take heed of this matter, and thereby afford us an accessible market for our fruits, and aid in huilding up bomes among us, for an enterprise of this kind hesides netting the expitalists or operator a large revenue, would give employment to a large number of men, women and children, who would make homes among us said add so much to our already rapidly growing prosperity and increasing population. Who will be the progressive man to forward this enterprise?—Napa Viniculturist.

### COST OF HOP CULTURE.

Several inquiries have been received at this office about the expense of planting a hop field. In order to supply this information we have consulted several bop-raisers. Through information thus gathered we are able to present an itemized exhibit of the oest of planting, cultivating and curing an acre of hops. Ground rent and the cost of clearing are not included in the estimate:

Plowing and harrowing	\$ 5.00
Roots, 1,640 at one cent each	16 40
Poles, 820 at 2 % cents each	20 20
Sotting poles	1 00
Twine and twining	8 00
Cultivation	15 00
Training, a continuous task	5 00
Succorning and stripping: twice	5 00

Total ... \$75.60

Addled to the above is the cost of picking, enring, bailing, etc. Estimating the first crop of an acro of new hops at 600 point ds of cured, packing would cost \$94, curing and builting \$15, and there would still remain an untilly for shipping, commissions, insurance, etc. The outlay for an acro is \$114, and the return is 600 pounds of merchantable bops.

- Ukinh Press.

### FARMING IN CALIFORNIA

We take the following extracts from a letter written to the New York Observer, by the Rev. E. Graliam of New York City, who visited this State some time size:

There is a class that can live like princes here, and yet may be called farmers. This is the class of outitivated, intelligent, wealthy people, who, cum,ing from the East, hny choice little fregments of land, dainty pieces up the earlyons, or on some beautiful slope slicitered from the wind and lying always open to the sun, where they can plant out a varied archard and afford to wait five years for the fruit, where they can hold a \$10,000 house, and have a nice carpeted stable and a spanking span of horses, with carriage and huggy to match, and lots of well-broken mustains for the young folks to ride horsebock; who can ride into the city every afternoon, and watch the novelties in the nurseries and fruit market, and send by express for bulbs and cuttings, seeds and shruhs, and tross, to Mexica and Japan and Obuna; and who can afford to plant them, when they arrive at the cost of \$10 sud \$20 per tree.

they arrive at the cost of \$10 and \$20 per tree. \*
We would now say that there is a possibility of acquiring and retaining very pleasant homes within twenty or thirty, certainly 100 miles of Santa Barbara for a comparatively low price per acre, say \$15 or even \$10, and by putting up a three or four-room sholl-board house, and working out at other jobs in the intervals of cropping, lay by as much money as will fence and plaut the farm, so that in a few years one can have a homestead that he would not exchange for the heat farm in New York or Onio. The great complemation of living in California, and especially Southern California, by the temperate and healthful climate, and the great range of crops and variety of fruits possible in mearly all its valleys and on its hillsides. I would say, in conclusion, that fancy furming in small fruits and the various semi-tropical into and delicacies, would soon pay a handsome dividend. To small profactions Southern California is certainly to be dedicated.

# A BUAUTIFUL PANORAMA. The following description of a beautiful spectacle

of nature, we take from the Stainslane county News:
A drive among the foot-fulls of our country would, at this season of the year, amply repay the lover of nature. The lower ranges of gentle smooth rolling treeless bills are covered with a complete misse of green vegetation, intercepted throughout with borders and heds of the loveliest of wild dowers of every hine, color and ahade of the rainbow. At this season of the year nature essays to deck our land in her loveliest attire, and nowhere under the sun is this more manifest than along the undulating bills of this county. Why it is that people of leisure will idle away hours of a brief life in the midst of grim, smoky, dusty towns, on the atreets, aideavilks, in crowded salooms, halls, or atreets, aideavilks, in crowded salooms, halls, is a niyatery beyond comprehension. One hour at present spent in our foot-bill country, listnaing to singing larks, beholding the fancifully varigated colors et beautifully gorgeons flowers and verdure that cover

### A VALUABLE COAL MINE.

the foot-hills of San Josquin valley.

the rolling wave like mounds, juhaling the delictions odors of natura's garden, drinking in under

the calm sky the pure health giving atmosphere, should give a greater sense of joy to the mind than months in the crowded towns. Yet, men, and even gentle women, never seem to think of enjoying the

great and beautiful spectacle presented by nature free of cost. To the discouraged, dispeptic, indigo

colored, thin hpped, liver discolored, constipated inhabitant of towns, we recommend a week among

At a meeting of citizens in San Diego a few duys ago, Dr. Chisolin made a report of a coal mine, lo cuted some twenty miles from Riverside. says. The Doctor then produced specimens of the coal, coke and saudrock formation which lies over the cost vein. He had visited the mine, which is situated about two and a half miles north of Lagu-na, five unites from the track of the California Southern railroad in a favorable position for a sido track, and traced the croppings for two miles, accompanied by a mining expert. The drift was run in about forty feet, showing a good seam of a carboniferous character of formation. The apec mens shown were to be considered merely as out-croppings, which had withstood the action of the elements for ages. As the drift proceeded the quantity of coal improved and became much hardor. He brought about forty pounds in a sack, which he had taken from the face of the dritt with a pick. Was perfectly satisfied that the voin wa a pica. Was periody sates that the volumes a tegritimate one and is four feet litree and one-half inches thick. There are three men now at work in the mine, but they make very slow progress. A hlacksmith in Los Angeles tested the coal, made nd is four feet three and one-half a perfect well and pronounced it excellent, bone or any other formation was found. specimens were examined by Mr. G. W. Riffenburg, who is a coal mining expert of considerable experience and pronounced it to he as good as he saw. The coal will be tested on Monday by som one whom the committee will nominate.



A BEAR CHANCE-CALIFORNIA GRIZZLY.

J. P. H. WENTWORTH, Editor and Proprietor,

### SAN FRANCISCO, AUGUST, 1883.

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Of Boston, Mass., Most Emitnent Grand Master, was born in Lancashire, England, August 14, 1824; was raised a Master Mason April 21, 1854, and created Kutght In 1855, in De Molay Comand created Knight In 1855, in De Molay Commandery, Boston. He was subsequently Grand Commandery of the Grand Commandery of Massa, chasetts and Rhode Island. He was Grand Captain Guneral of the Grand Encamproent from 1871 to 1874, and Grand Generalissimo from 1877 to 1880, when he was elected Grand Master. While be cannot be termed a politician, he has served a term in the State Senate and one in the National Congress. In his personal relations with men he is reliable, genial and popular. His bitch views of the duties of man and citizen, his devotion to his duty (as he accs it), his contrest towards and consideration for the feelings of others, show in their true light the knightly qualities of a knight indeed. He is a man of familty, having a wife and five children. man of fanity, having a wife and five children. He is one of a large family, having five sisters and four brothers, one of whom, Hon. Sir Peter Dean, of California Commandery, No. 1, came to California in 1849, and is well known on the Pacific coast, having served as President of the Society of California Pioneers and as Siate Sens-

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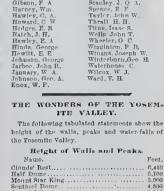
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Helght of Water Falls. Nano.

Sentinel Fatis.

Yosemite Fatis.

Yosemite Fatis.

Itoval Arch Fatis.

Bridal Vell Falis.

Nevada Fatis.

South Cauon Fatis.

Vernal Fatis.

WOOL CLIP.

The Grilley Herald says. Sheep men report the season's clip the largest they have realized for many years. Among the really remarkable averages we hear of, is that of J. D. Brazulton, whose bent of 1,000 averaged three and a half pounds each. This is a tig average, yet smaller bands can be cited where the average is greater. There are thousands of serves of foothill land in the county especially stapled to sheep raising, and in time the industry is likely to become of the most profitable pursued by our people.

### COLONY.

There is considerable talk of planting a colony in the tosian bolt in Tulare.



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### CALIFORNIA.

General Outlines and Physical Features-Mountains, Valleys and Natural Wonders.

Agricultural - Horticultural - Timber and Mineral Lands-Soil and Olimate.

Railroads-Commerce and Manufactures
-Resources and Advantages.

Population-Present and Future Prespects.

Population—Present and Future Prespects.
A great deal has been written uhout California, for the past 35 years, ever since the discovery of gold, on the 19th day of January, 1848. No other country, on the face of the globe, has had such in netoricity as California possesses. A great deal has been suid, by parties almost wholly unacquainted with this woulerful country, which, of course, is unreliable information. In fact, there is but one way to gain a correct knowledge of California, and that is by personal observation and careful study. As we have traceled continually, for several years, and visited every section of California, in the interest of this journal, we will endeavor to give a correct description, in the following article:

only fire or sex unites wide, and terminates in the great basin, which is from 4,000 to 5,000 feet above the sen level. The Coast Range, as its mano indicates, runs along the coast. This range are uges from 2,000 to 4,000 feet in height. Between the Sterra Nevada and the Coast Runge lies

The Grent Busha,

The Grent Ruslo.

Bearing the double name of the Sucremento and Sun Josepha valleys, alchaugh really latt one gengraphical formation. This ralley extends north, and south 400 miles, with an areang breadth of from 50 to 60 miles, and presents crulences of once being a rast lake. It is drained, from the north, by the Sucramenta, the largest river in the State, and from the south, by the Sun Janquin, the longest river in California, which, after meeting and mitting in the center of the basis, breaksthrough the Caast Bange. Along the great rivers the ralleys are generally low, level, and extremely fertile, rising into undulating slapes and low hills as the mountains are approached on otherside, and broken on the each ty numerous spins from the Sierra. At the north end, between htt. 40 degs, and 42 drys, is a high tablechund or platean, thout 110 miles long, and 5,000 feet above occan level, lying between the main claim of the Sierra Nevada, and a branch which extends northwest towards Mount Shasta. The plateau is an independent basin its maters in the extreme north-east curner of the State.

The great basin of Utah, a mountainaus, harren

in San Francisca, is \$50,000,000. The grand total value of the percious metals of the coast amounts to more than \$80,000,000 ammully, perceivally contered in San Francisca.

Forty-three years ago, there were hat a few mission gardens and small bunds of entitle and horses here; thirty-three years ago there piancer miners had began their work with pan and pick, rocker and hong-ton; twenty-eight years ago, a few acce, called outhursrasts by some, crazy by others, longer to firm and plant orchards in valleys, and mike homes. Thenty-three years ago mitroul huilding was commenced, and only twolve years ago rimentumed interests of the Stafe began to develop with energy; and the planting of orchards received an impetus which has continued with necelerated speed erre since. These few purplemy which larley rine, word, god, fraitund quick silver; and balfornia is, today, the fourth State in the Union, arcording to population, in her mannfacturing industries.

Commerce

Among the primary and fundamental rlains which California has upon the attention of homeseekers, her commercial situation may be mentioned. The communities, which are near the sea shorn, have advantages ever those farther inland, as they thus ultim benthly competition in carrying their products. There is no reason to doubt that the same growth that has built up such pressure.

from that of any other country in the world. Properly speaking, Chifornia has several character the lastin of the Sacramento and San Josephi having one, the vestern slape of the Coast Range, north of latitude 35 degs, another, and the portion of the State south of 35 degs, still mother. The climats west of the Coast Range is different from the coat of the same range, which is less than 60 miles in width. At San Francisco the increase seldom rices above 80 degs, in the dry, or falls below 10 degs, in the vest-season. Snow seldom falls here, and the visitess hear in strong resemblance to the Indian summer of the Mississipa valley. It is challful if any other country in the road lines such coal summers and mill winters. The readness of the summer inglities attributed to the extreme sleamess of the atmosphere favoring radiation. The wind blows, for a part of each dim, from the morth and morth-west along the existences are much greater, the mersary in the Sacramento radley often rising, in summer, tailfo degs, and along the south-rastern line of the State shigh as 140 degs; but, oring to the extreme dryness of the atmosphere, this great heat is not prostrating, as on the Atlantic Slope, the inject of the first has a small range of temperature slape. The lirist has a small range of temperature and some for and some large of the coast, as greater summer temperature than on the coast, a



A PORTION OF SAN FRANCISCO, LOOKING TOWARDS OAKLAND

By booking over the map of the world, we find Californiu situated on the Pacific Ocean, between 1st. 33 degs. 20 min, and 42 degs, north, and lon. 114 degs. 20 min and 124 degs, north and lon. 114 degs. 20 min and 124 degs, 25 min west. It is bounded on the north by Ocean; east by Nevada and Arizona, following the Sierru Nevada Mountains on the line of Ion. 120 degs, wrost to Int. 39 degs, thence southered to the Cubrardo river, an the Sith parallel, and thence by the course of that river; sunth by the Mexican Territory of Lower Californiu; and west by the Pacific Ocean. The outlines of this State are very irregular. Its general direction' lengthwise, is northwest and southerest, and a line drawn through the center, following the curves of its castern and western houndaries would neasure about 770 miles. The general threadth is about 320 miles, least breadth, 150 miles, and the average is about 230 miles. In size it is the second State in the Union, its own long 198,368 square miles. In 1880 it had a population of 383,577, exclusive of Chinese and Ludinas. Georgraphically it is divided into \$2 countres.

The most striking feature in its physical georgraphy is the existence of twa great ranges of mountains, running north-cast and south west, and generally parallel, ended the Sierra Nevada and the Coost Range. The Sierra Nevada is the most lifty and ranged, its surant being generally alove the region of perpetual snow, and land the four figode very elevated passes. It is 500 miles long and 80 miles wide, with an altitude varying from 5,000 to 16,000 feet. Nearly its which descends to a level of 300 feet above the seen, which descends to a level of 300 feet above the seen, which these other is

tract of land, having an elevation of 4,000 to 5,000 feet, with no outlet for its waters, extends into the seath-cast portion of Childrenia. This region is exceedingly and and sterile, and is cut up by numerous irregular ridges of lone, rocky manutains, with intervening ruleys of another broken to the south-cast barder is a district about 140 miles hang by 76 miles who, which behongs to the Colorade basin, and it known as the Mohne desert. The Coast Range is divided, in its length, by long, nurrow, fertile ruleys.

Of the total area of the State, one fifth is desart, and two-fifths are mountains unfo for tillage, but with extensive districts valuable for pasture, timber and universit, leaving two-fifths susceptible of cultivation—though some partions of it can not be used with profit, until irriented, pastected against overflow by dykes, and drained of its superabunitative, or made necessible by milroud. The State has 100,000 meros of successible has including 13,432,640 cares of private grants and 1,500,000 meros of swarep lands. The surveyed lands included a surveyed public lands, and 47,550,001 lands included 8,000,000 across of private grants and 1,500,000 meros of swarep lands.

California has a population of less than 90,000 pageons, scattered cover a territory larger than Randaud, beland, Sectiand and Wales, yet the total munual production of the mines, farms, manufactures, vine arrays and orchards, carried on by these corsum, and various cooperations pay dividends of alant \$36,000,000. The vortey whese of roud extate munual to \$65,000,000. The coimage of the mire,

perons citys as Boston, New York, and other etissheing the Atlantic sheres, is in full operation here. The commerce of the Pucific, and of the west canet of South America, Mexice and Pontral America is containing here. The great unition, of which we are a part, must dram its share of the precious commerce of the Orient through these gates. Whatever dominions wide-reaching and inverful, are yet reserved for the English-speaking ruce in the sweep of the Pucific, and almostic that the largest portion will be in the hands of Pacific Coast men, from Alaska to Mexico The commercial center of this torritory is about the buy of San Francisco. Here, is the hardor, the hest bocation, the many beginnings, the associated capital. Other cities will spring up along the northern and southern coast, win commercial phase and make rich men by the score; but here is the netropolis, which, if the most of California are true to themselves, and rightly use their advantages, may some day be greater than Landon, more keenly alive than Pacis, more picturesque than Venica, may coracted with temples and works of art than was Rome in her pulmiest days.

Sail and Thurate.

Soft and Phonje.

The second great advantage which this const presents is its variety of soil and clamate; hence its production. The climate of Uniformia, in dif-ferent pures, varies greatly, irrespective of the great range of initiale 35 degs, through which the State-extends. It differs widely from that of the Atlantic slope, in the same Initiale, and probably

dry, mortherly wind at times, and no fog. On this Sierri slope, doe northward in the Poast Rouge, the climite, as we ascend, approaches more and more to that of New England, until we reach the snow line. In many countries, 30 miles' travel takes one from where oranges grow to where only the hirely fruit-trees prosper. This general features of these three climates, of which we have spoken, migdle, or are interchanged, necessing as the rulleys open toward the sea, or nway from to stape multiward or sauth. In every country in the State, except a few along the upper Sicenss, the entire rungs of comperate some, fruits, grains, and after products, together with many of the semi-required fruits can be grown with cose. Specimens of wild plants of the entire Minter Poast, from Minter to Heinday, with the flora of Japan, Climand the Himidaya region, can ensily be made to thrive in an urbirectum, in Cubfornia. Anotheric contributes largely to our gardens, and Mexima, Philonia, and Porny implants find congenial homes in Culifornia soil. The hecticulture of the future will be one of supprising uniterly, as the hectical mestal learness better acquainted with the soil, which is of all sorts under characters.

чинаются.

Culifornia has a rain and a dry senson, the former nearly corresponding to the winter, and the lotter to the summer of the Athentic region. The rains legin at the north early in antana, but the north ready in antana, but the most full in the latitude of San Francesco in any uppreciable quantity until about the middle of December, which is the most had greatest rain. The rainy season terminates towards the and of May,

June, July, August and September are dey, only 25 melos of rain having fallen in these months, collectively, in eighteen years. The average rain-fall for, in inches, the seasons and the year, at dif-ferent localities, is:

PLACES.	Spring.	Sum'er.	Autinn	Winter	Year.
San Francisco,	7.01	.13	3.31	11.33	21 41
Sacramento,		.00	2,61	12.11	21.73
Sumboldt Bay		1.18	4.87	15.03	31.56
Fort Yuma.		1.30	0.88	0.72	3 15
San Diego		0.55	1,24	6.60	10.43

for Yuma. 0.32 1.30 0.88 0.72 3 bean Diego. 2.74 0.85 1.24 6.60 10.43

Snow is very rave on the coast and in the valleys, and never remains for mainy days, except in the Klamath river valley, in the north-west portion of the State. There are many mining towns high up in the mountains where the snow falls to a great depth, and hes till late in the spring. There are many parts of California where the rainfall is not more than from 10 to 12 inches, on an average, and when it falls below this, artificial mrigations is usually needed. From Goshen to California valley, the manfull is too light to seeme crops in ordinary sensons, but the adjacent Sierras contain a eachment area of 4,000 square miles, with an average preupitation of over 50 inches. In this portion of the State, large tracts of land are so situated as to be well irrigated at slight cost. The upper half of California has sufficient rain for the production of all kinds of crops, except fruit and grapes in the

waterfalls at various points—eleven in all. The water, from these falls, mainly forms the Mercel river, which runs through the valley. Some of these falls are wonderful and marvelous in their grandeur, sublimity and magnitude. The falls of Niagawa, one of the wonders of the world, are only 163 feet high, while the Vo Semite fall leaps down 1,600 feet and the Vo Semite fall leaps down 1,600 feet and the world, where it falls on a rocky platform, perhaps 30 feet wide, then leaps down 600 feet more on to a similar rocky table, from which it makes another clear fall of 434 feet to the rocky debris at the bottom of the valley, making a total of 2,634 feet, which is sixteen times higher then that of Niagara. More wonderful still is the leap of the Sentinel Cascale, about three-spin ters of a mile to the front; it has a fall, in a single leap, of 2,275 feet. The eleven distinct waterfulls, in the Yo Senute valley, are tabled thus: Cataract, 500 feet; Bridal Vell, 631; Yo Senute, 2,634, (first, 1,600; second, 600; third, 331; Vernal, 332; Nevalla, 700; South-Fork, 600; Royal Arch, 1,000; and Sentinel, 3,600. It is impossible to describe Yo Senute so as to give one who has not seen it even a faint iden of its wonderful, strange and magnificent sceneys. In the same section of California are the noted

### Big Trees,

Of which there are several groves in the State. The most noted is the Big Tree Grave in Calaveras county. At an elevation of 4,875 feet above the sea, and within an area of 50 acres, are 188 trees, twenty of which exceed 75 feet in circumference.

that one can look so deeply into the interior of the earth as here, its surface being 280 feet below the level of the ocean. Looking down from the mountain side, into this thep, wille, visit basin, with its shiring beds of seda, salt and borax, which cover thousands of acres, and blaze and shinmer in the stready glare of light which pours men them from a cloudless sky: blazing with reflection of chemical deposit left by the receding sea that here once eibled and flowed, but where now scarcely a drop of rain falls; it is surrounded by barren, volcame mountains, making this indeed one of the most wonderful places for the daring prospector or turnst to enter.

### Lake Tahoc,

Lake Tahoc,

One of the most remarkable bodies of water in the world, lying at an altitude of 5,128 feet alrowe the sea level, as 23 miles long and 15 wide, in the form of a parallelogram, extending north-east and south-nest, partly in California and partly in Newada. The greatest depth yet found is 1,800 feet, and the water is so clear that troot can be seen from 80 to 100 feet on its pelbly bottom. Owing to the altitude and the ravity of the atmosphere, the water has little broyancy, and nothing is ever seen floating on the lake, except the beautiful little steamers and pleasure and fishing hoats; the bodies of persons drowned in this lake mover rise—are never seen again. Lake Tuhoe is the great sanitarium of the Pacific Coast. The mountains around it me from 2,000 to 3,000 feet higher than the lake. Near by, on the line of the C. P. R. R., is

which bursts out in a roaring cloud of steam. California is not without her natural bridges, five of which have been discovered; the largest of these is on a small creek emptying into the Huy fork of Trunty river, and is 80 feet long, with its top 170 feet above the water. In Siskiyon county there are two, each 60 feet long; and on Cayoto Creek, in Tuolunne county, there are also two, the largest being 285 feet long. Numerous caves are found in nearly-every mountain county in the State; perhaps the most noted is Alabastor cave in Placer county, containing two chambers, the largest being 200x100 feet. The Buwer cave, in Mariposa county, has a chamber 100 feet square. Crytecaves, in Calaveras county, are among the most beautiful sights in the State. Funkfalde must below the level of the son, covering an area of a quarter of a mile long by one-eighth of a mile in width; they consist of soft mod, through which hot water and steam are constantly escaping, keeping the mind in continuous movement. In-numerable mineral springs are found all over Culifornia, which are described in the county descriptions.

### Ratiroads.

California has 23 lines of railroad, amounting to 4,265 miles, nearly all centering in San Francisco. The most important are the Central and Southern Pacific, and the leaved lines, reaching through the principal valleys of the State. The S. F. & N. P. C. R. R. traverses the entire length of Sonoma



VIEW OF BERKELEY, CALIFORNIA.

Sacramento valley. No irrigation is required in the valleys of the Coast Range. A nurked phenomena of the climate is the comparative absence of thunder and lightning. During autumn many of the rivers sink in the sand soon after leaving the snountains in which they rise. Vegetation dries up during the long, dry season. The soil, climate, tamber, cereals, fruits, and vegetables will be more specially noticed in the different county descriptions.

### Natural Wonders.

First among the natural curnosities of Culifornia is the valley of the Yo Semite, with its surrounding cascades and mountain peaks. It is situated in Mariposa county, on the west slope of the Sieras, midway between the east and west base, at an elevation of 1,060 feet. It is 112 miles, in a direct line, a little south of east, from San Francisco, but about 200 miles from any of the traveled routes. Here, within a space of less than 20 miles long and 10 miles wide, is probably presented more grand and beautiful scenery than is found in any smallar area in the world. The valley proper contains about 8,400 area, one half of which is meadow land, and the whole is as level as a floor, except at the sides of the mountain while, where the debra-2 has fallen down. One can not resist the same alluthor as that of the surrounding mountains, and that by some convulsion of nature the valley had such to the distance of about a mile below its original height, leaving perpendicular walls of grante on all sides, that stand up from three-quarters to one mile high. Over the sides of the run of the valley, at the depressions, there are

They were discovered in 1850. One of these giants has been felled; to accomplish this task pump-boring angurs were used, and the constant toil of live men 25 days; but when thus completely severed, two and a half days! abor, with various mechanical apphances, were required to throw it from its broad base. This tree was 302 feet high and 96 feet in circumference at the ground, and its annual growth lines showed over 3,000 years of life. A house is built on its stump for theatrical and other entertainments. A splendid hotel is kept in the grove. About seven index south is what is known as South Grove. The other grove of these giants are; one in Mariposa county near the Yosemate Valley. Just south of it, in Todumne county, is another; still further south, in the castern part of Mercel and Fresno, another; and farther south will in Tulare county, unong the tablest momitain peaks, mother. These are the only places, in the known world, where this timber is "Sequicias." It is a species of redwood somewhat, and to Eastern people I can compare it the mearest to red cedar.

### Death Valley,

Death Valley,

One of the most wonderful and least-known countries on the continent, is situated in south-castern California, in Inyo country, and lies east of twent's river valley, a distance of nearly 100 miles. It is reached by traib that stretch across wide means of carti and volcavie remains, and over mountains that rise bare and lonely under a sultry and burning sun. This wonderful valley extends for 190 miles morth-cast and south-west, and sirror 30 to 40 miles wide. There is no other landscape

One of the loveliest lakes in Culifornia, and for grand and subline scenery is unequaled on the coast. Due worth from here, up in Plumas cousts, is Crystal lake, which is one of the matural wonders. In the bottom of this lake may be seen large forest trees, standing in hundreds of feet of water, undergoing the course of petrifaction. The formation of this lake is of modern date, and was formed by a mountain sliding into the mouth of the canyon, which is now covered with water from the melting snows of the surrounding mountains. The petrified forest, 76 miles from San Francisco, where portions of nearly lood distinct trees of great size, prestrate and scattered over a tract three or four miles in extent are found, some on the surface and others projecting from the mountain side. The silicilied trees appear, upon an examination, to have been conferous. A few n iles north bring us to the

north bring us to the Geysers.

One of nature's chemical laboratories, located whort 110 miles north-west from San Francisco; it is visited by thousands of tourists, and is reached either rin Cloverdaleor Calistoga, by rail, thence a short distance by stage, over a picture-sque route. A narrow valley or canyon is tilled with flowing hot springs, and the soil is covered with a crust of sulphur, iron rust and other mineral deposits, and filled with steam from the boiling waters. Through the crevices of the rocks, found all over the surface of the canyon, the steam shoots and hisses, while the sulphur and almy crystals gleam in the sunlight. The questionable ground shakes wad is bot hemeath your feet; the mir is thick with vapor

valley. The Oregon Division of the Central Pa-cific is now being built north to the State line, where it connects with the California and Oregon Railroad, making a through line between San Fran-cisco and Portland, Oregon. Other railroads are being built in various parts of the State, which are noticed in the different county descriptions, to-gether with the occan and steamer lines. The physical characteristics of the State, giving the tumber, soil, minerals, etc., are classified under the different county descriptions.

### ALAMEDA COUNTY.

ALAMEDA COUNTY.

This county, separated from San Francisco by the bay, contains 512,000 acres, 487,233 of which are assessed, leaving only 24,807 acres of waste hard, some of which is partially covered by water from the bay, the remainder being mountain waste. It has nearly every variety of hard, from low level tide binds to rolling mountain grazing hands. Along the bay, on its west side, is a strip of hard from six to fitteen miles wide that is from a few to several hundred fest above the sea level, all of the very choicest agricultural land. Along the water's edge there are from 20,000 to 25,000 acres of tile hard, a great portion of which has been reclaimed. In the eastern portion of the county is Livermore valley, which is an elevated plain, from 350 to 501 feet above sea level; this valley is from twelve to fifteen miles in length and from four to eight miles in with, and is surcounded by a low range of mountains. Alameda is well watered by numerous creeks, which rise in the upper portion of the county and empty into the lary.

#### Orkland,

Orkland,

The second largest city in California, which has a white population of \$3,000, and, as a place of residence, is neknowledged to be stripussed by no other city in the Union. Her bention is on the cast side of the lary, immediately opposite San Francisco, which which place she is connected by several mirrord and forcy lines. Stannears run to nearly every just of the city, lossifies the eight different lines of street railways leading to Alameda, East Oakhuid, Berkeley, and Frutzale. The harbor and railwand improvements, and the building of the searcall and deedging out of the bry by the Government, will make this a great connected

center.

The educational facilities in Alameda county are fully up to the highest standard. Here, are located the State University, Culifornia Medical Callege, Military Academy, theological seminaries, grammar schools, etc. Saveral large unumfacturing industries have recently been imagnetated. Among them are the Judson Manufacturing Company, with a capital stock of \$1,000,000, that manufactures various kinds of agricultural implements, etc.

The turns of Livermore and Plemsauton are site.

The torus of Livernore and Pleusanton are sit-mated in Livernore valley, in a fine agricultural country, white Haywards, San Leandyn, Center-ville, Alvardo, Newmerk, and Niles are all situated on the bay side of the mountains. In all the towns of this country are churches of all denomina-tions.

the west fock of Carsun river, at the base of a mountmin, where the snow-capped peaks of the Surras cun nearly always been seen. The town contains less than 250 inhabitants.

### Monther,

The second village in Alpine, is located some eight units southeast of Markleville, and is situated in nurrow emyon, with fine quartz minrs on all sides. The large Nn. 2 Colorado quartz utills are located here. The town contains 200 people, who are principally miners.

### Silver Moznikin

Is a small town heated on the banks of Silver creek, at the fort of Silver mountain, and is about eleven miles southenst of Markleeville.

This county has vast forests of mino, fir, spruce, tamarack, etc. The chante, in summer, is mild and healthful, the average temperature giving about 75 degs., and in winter about 40 degs.

#### AMADOR COUNTY

Contains on area of 300,000 acres of land. The principal valley is the lone, situated in the southwest partien. Its soil is of a lones soudy loam and is very fertile; it is divided up into beautiful little farms, orchards and members; much of the surrounding hillsdes are planted to vineyard. In the smaller yalleys, where water is brought in for irrigation, considerable alfalfa is raised. Unlike many mining regions, Annother has an extraordi-

uow it has over 1,000 inhabitants. It is strictly a mining town. Seven miles from Annador City, situated on an open plain, or table land, lies the

#### Plymouth

Which contains about 600 inhabitants. Here, also, is heard the heavy stamp of quartz mills, grinding array, day and night, the whole year round.

grinding away, day and night, the whule year round.

The Annulor Canal Company, a corporation which has extensive water works, furnishes water to Juckson, Ione City, Annalor City, and Plymonth. The water is taken from the Mokelmune river, by differe and pipes, to large reservors, from whence it is distributed in pipes to the different towns and nines.

The other towns are Volcano, Oleta and Drytown, each with a population of from 200 to 300. The census of 1880 gave Anador county a population of 11,386.

### BUTTE COUNTY,

Is one of the largest in California, ambracing an area of 1,305,440 acres, which are classified as ful-lows: mineral, 552,950; timber lamb, 568,640; agricultural, 195,840. The western part of Butte is comparatively level, and embraces most of the farming lands, while the castern side is hilly and mountainous, and includes all the mines. The county is well watered by the Sacrumento and Feather rivers. The soil, along the river bottams,

acknowledged to be one of the handsomest and best-tilled farms in California.

acknowledged to be one of the handsomest and best-tilled farms in Culifornia.

One HDe.

The county sent, is 21 miles southwest of Chico. The country south and west of Orwelle is a fine farming region, while in the foothills, near the town, there is consuberable anning. The pagnation is about 1,800. Oraville community measurements in subout 1,800. Oraville communities in each sive mountain truly, reaching into northeastern California for more than much number of mice heavy merchants have done housness here for many years, and have become quite wealthy. A fine new flouring will has recently been builty. A fine new flouring will have recently been fully several stage have center in from Plumas and Lassen cuntities, on the north, and Yuba, on the south, besides the lines from Chica unil Biggs.

The other trues are Gridley, Biggs, Nelson, Durham, and Nord, all located on the O. D. of the C. P. R. K., in the nestern part of the country and surrounded by fine agricultural land. Butte has innuces forests of sagar, yellow, and not pive timber. This timber belt is in the eastern montainous part of the country. The climate of Butte is generally pleasant. The rainfall for Onville will average from 20 to 24 inches. Snow seldon falls believe an altitude of 1,200 feet. On the more mountainous parts of the country.

### CALAVERAS COUNTY,

Lying immediately east of San Joaquin, has an



### BIRD'S-EYE VIEW OF SAN FRANCISCO.

Is located in the extreme castern part of California, burdering on the State of Newada. The greater portion of the county lies at a very high latitude, reaching from 4,000 to 11,000 feet above the sea level. It is strictly a mining county. There are some very rich quartz mines within her borders, some of the most nated of which are the LXL. Exclosure. Labellu and many others. This county is exceedingly well watered, as the Carson rice rises in the southern part of it, and flows north. It is fed by numerous mountain streams, such as the East Iork, West fork, West ereck, Silver creek, Monitor creek, Suith's creek, Mogul creek, Indiac creek, e., which all head up in the Sierras, and perpetual snow. Among these mountains are numerous ralleys, the largest and most nated me Dimond. Hermit, Pleasant, Faith, Hope and Churity valleys. Dimond valley contains the principal farming lands, predicing lardey, hay, outs, jotatoes and some whent, which find a ready market among the miners in the vicinity. The three sister valleys, faith, Hope and Churity, are located in the northwestern part of the county, at multifule of 7,500 feet. These valleys are inhabited only during the sammer months, and three only by stock-raisers and blairy-unen. In Pleasant valley lurge quantities of hay are cut annually. There are many samiler ralleys as key which grazes here is driven from other adjuccent countries of Californiu and Novada.

\*\*Pluckle-valler\*\*

Markleville,
The county seat, is located on the east bank of

unry soil. Increasing quantities are cleared and improved annually; the productious of which are, e wheat, burkey, affalfa, potatees, wine and fruit. The foot hills, and especially the valleys of the lower portion of the county, are very favorable localities for fine fruits and grapes.

The mineral resources of the county are coal, copper, gold. Large piles of pulverized rock attest the fact that sume of the mines must have been suck to a great depth. The comolidated Annudor is down 2.200 feet, the Mahoney, 800, and is still going deeper. The Keystone, and other mines in the vicinity, are all in active operation. The first town that is reached is

Which is 133 miles northeast from San Funcisco, at the terminus of the Annolor branch of the C. P. R. R. It occupies a site on the edge of a leavely valley, which hears the same name, and is a thriving town, of about 650 people. About twelve miles northeast, by stage, is

"The county sent, which lies in a beautiful little valley, surrounded on all sides by high liftle; it contains about 1,200 inhabitants, Four miles from dacksun, by stage, we arrive at

Still the scene of active unining operations, principally gold quartz. A half-hom's stage ride, maid some of the largest mines in the county, brings us to

### Accorder City,

The liveliest mountain torm in this section. It is but a few years since a town was started here, and

is a rich, sandy loam. Between the Sagnmento and Feather rivers lies an immense tract of black adole land, very productive in ordinary years, lent liable to overflow during the met season. Near the feat-hills there is a bolt of reil lands, formorly thought not worth farming; but, during the past few years, many small farms have been successfully tilled, as the hund constantly improves by cultivation. The foot-hills contain land valuable for farming purposes, though at present, recy little of it is under cultivation. Feather river has three forks, or branches, crussing the miving section, dividing the hilly portion into several extensive regions. Along the various streams, and on the several ridges are the principal mines. The immense hydraulic mines of Pherokae Flat are, perhaps, that most gignatic in the State. Hella, are perhaps, the most gignatic in the State. Hells are, perhaps, the most gignatic in the State are the ball-rock. Those me considered as among the leading to the onlines, supplying about 2,200 miles of large ditches and over six miles of iron pipe leading to the onlines, supplying about 2,200 miles of large ditches and over six miles of iron pipe leading to the onlines, supplying about 2,200 mehas of reator per thy. The cest of the ditches and reservoirs is nearly hulf a milkion of dollars. From twelve to sighteen hadraulic giants are at rock, and a large number of une are constantly cumploved. There are many other ulnes in the country, the principal localities are Wyamlette, Barnote Federschen, Chernkee, Mountain House, Dogtown, Landocks mil Luskip.

The largest turen, is situated in a rich agricultural country. The town is one of the handsomest, in the State; it now has alone alone alone in the Adjuising the town is Gon, John Bidwell's farm,

area of 622,000 acres. The entire county may justly be regarded as a bed of mineral deposits, gold predominating the baser metals, such as copper, iron, and cinvibar are abundant, besides the magnificent ledges of marble, linestone, and granite, and her unleveloped beds of cad, which are known to exist. The principal natural wonders of the county are the world-removated Big Trees, the extensive cave, with its truly charming chambers, and the readering that the truly charming chambers, and the readering the tourists from all parts of the model. The innevent timber belt, for granibare, extent, diversity, and magnificent proportions, hus no parallel in the entire timber both on the restern slope of the Sieras. Calaroms is one of the best watered sections in the Sinte.

### Son Andrees,

The county sent, is an old mining town, and nor has a population of 800.

West Point is the extreme term on the northerest; Mochanne Illi on the rest center; Campa Seca and Comanche on the southrest; Johny Lud and Milton on the southrest; Johny Lud and Milton on the south; Copperapolis on the southeast; Altourillo and Angels' Comp on the content, Vallecita, Manghy's and Sheep Rando art the motheast of the contra value of the contra or the motheast of the contra or the motheast of the contra are received and distributed; stage lines diverge to Sm Andreas, Sheep Rinch, Copperagolis, Angels, Murphy's, the Big Ten grees and Sonour. A duily stage line alternation of the contra area of the contra or the contra of the contra of

### COLUSA COUNTY

COLUSA COUNTY

Comprises a large portion of the great Sacramentovalley, haring an irea of 1,472,000 acros. Of this
ract territory, about 954,000 acros iie along the
Sacramento rafley. As the summit of the Casat
Range forms the western houndary, the baharce
of the county is composed of mountains, but hills
and small vaileys. The rafley portion of this
balance is estimated int 28,000 acros, the lon hills
at 480,000 acros and the romainder, about 4,000
seres, is mountain waste. The best land is along
the streams, and especially along the Sacramento
river, which runs almost due south, forming the
western houndary of the county, 24 miles, in a straight
line, and then forms the castern boundary. The soil
along the river is of a sedimentary, decomposed
regetable nature, making the most productive land
in the morth. Colusa county is watered by the Sacramento river. The river is narigable, all the
year round, to the upper cut of the county,
Eighteen miles north of the south boundary of the
county is Butte slongh, which is a large esturny,
nearly one-fifth the size of the Sacramento river,
and runs in a southeasterly direction in Sutter
county, where it is lest in the thie basin formed
by the Sacramento and Feather rivers. Sycamore
slongh leaves the river on the west side some four
miles below Butte slongh; the great slongh flowing
in Yolo county, and about 30 miles from the head
of the slongh, takes the mains of the Lower Sycamore, and the large body of fertile hand between
the slough, and Yolo, Sutter and Colusa counties,
is known as Grand sland.

The census of 1880 gave Colusa a population of

ty, on the river, and was once quite a trading-place.

College City.

Some eighteen unles south from the county seat, contains about 250 inhabitonts, and is in a fine agricultural country. Some three nules east is

Arbunkle,
Located on the railroad, with a population of about 200.

### Jacinto

Jacinto

Is the shipping point for the large wheat furm of the late Dr. H. J. Glenn, and has one general store.

Sulphur creek is a small mining town in the Coust Range of mountains. Central is a city of the future. Spring valley, St. Johns, Nerville, Butte City, Kanawah, and Leeseville are all small trading points in various portions of the county.

### CONTRA COSTA COUNTY,

CONTRA COSTA COUNTY,

Has an aren of 344,491 acres. The Coast Range of mountains run parallel with the ocean across the county, extending in a south-casterly direction. The most distinguished feature of this range is Mount Diablo, standing out boldly 3,896 feet above the sea-level, its location being very near the center of the county. Its protinence caused it to be selected by the Government as the initial point of base and meridian lines in the survey for nearly two-thirds of the State's area. The mineral county is a survey for the survey

and are now being expended in rectaining these lands, which become murvelously productive, the sort being a rich deposit of sediment and decomposed vegetation. Thousands of acres are leased to Chinamen and Italian gardeners, who pay an annual cush rental of from \$10 to \$20 per acre. The San Francisco regetable murket is largely supplied from these lands. As in most counties in our State, so here one may find a diversity in climate.

### Martinez

Situated on the Straits of Carpninez, is the county seat, and contains a population of about 700 people. The overland railroad now passes through the town, and the commerce of the Sacramento and San Jooquin rivers also passes in full view.

Port Costa,

Port Costa,

A new and enterprising town, has advantages that
fer places in California possess, one of which is
deep water, suading the largest sea-going ressels
to come in and load with wheat, as riell as the
largest grain vorielouses on the const. The town
has over 3,000 feet of whorfage for shipping facilities. The monster ferrybout "Solano," 425 feet
in length, with four trucks, is capable of conveying
four trains of cars safely across the straits between
Port Costa and Benicia, a distance of one mile.

Auttoch

Has a population of 900, and is situated on the
bank of the San Joaquin river. The country,
around the town is all good agricultural land, some
line orchards being in the vicinity.

Walnut Creek,

### Walnut Creek,

One of the prettiest towns in the county we may say in the State—has a population of 500. The

and chrone mines. These iron ores have been tested by scientific men, inho pronounce them of a very high grade. Used was discovered, several years ago, few miles north from Cre-scent City. The country is but sparsely settled, there being only 2,600 people avitum her borders.

Ceccent City.

The country is but sparsely settled, there being only 2,600 people avitum her borders.

Ceccent City.

The country seat, with a population of 1,000, is situated on a small bay, looking southwest, and facing the sea, at the foot of the Coast Runge of mountains. Nearly alf of the exports and imports of the country are from Crescent City, in fact, there is an extensive country tributary to the point, reaching north into dosephine and Jackson countries, Oregon. The clinate of thu portion of the country, near the sea coast, comprising Crescent City, Elk and Smith river valleys is, in its general character, mild and healthy. Sewere froests are seldom experienced. The heat in summer is not oppressive and, although little or no can falls in the sommer months, the close proximity to the quean lends mousture enough to the atmosphere to sustain the vigorous growth of plants. The immense form and weeds, in the redwood forests, indicate no lack of moisture. The rainfall at Crescent City is from 00 to 70 inches for the season.

Del Norte,

Sometimes called "Smith River Corners," is about axiteen niles northeast from Crescent City, and contains 200 inhabitants. There are only three villages in the country, the third is a mining camp, on the extreme east side of the country, called

Happy Camp.

The town is built on both sides of Indian creek, ear its junction with the Klamath river, and sur



### CITY OF OAKLAND, CALIFORNIA.

of Williams,
Named after Mr. W. H. Williams, the founder of
the town. There are, at present, about 400 inhabtants. The town is supported by the wheat-farming country that surrounds it on all sides.

Maxwell,

Natural,
Situated on a level plain, has a population of about 250. The immense grain warehouses located here are positive proofs that this is one of the finest wheat-producing sections in the State.

Willows,
The second largest town in Gluss county, is located on a level plain in a fine agricultural country. The business portion of the town was nearly all destroyed by fire last full, but is now rebuilt. Molway between Maxwell and Willows is the village of

Situated in a fine wheat section. It contains about 200 inhabitants, several large grain ware-houses, two hotels, and a few general stores. We now pass on north to the village of

Orland,
Situated on both sides of the railroad, in a fine
spricultural country. It has a population of 450.

Petuceton
Is situated in the northwestern part of the coun-

13.118; add to this an increase of about 1,000 for the past two years.

Louis as a mining county, yet there is both gold and quicksilver found within the runneral springs.

Colusa.

The county seat, has a population of 3,000; it is regularly hid off with wide streets, and has some very good and substantial business blocks. Ten units west, on the C. P. R. R. (O. D.), is the town of the town in the county are Judsonville, Somers ville, Danville, Adams, Lafayette, Pacheco, Pittsburg and Union miles east of Norton-ville, also ship their coal products over a road six ville, Danville, Adams, Lafayette, Pacheco, Pittsburg and Union miles east of Norton-ville, also ship their coal products over a road six ville, Danville, Adams, Lafayette, Pacheco, Pittsburg and Union miles east of Norton-ville, also ship their coal products over a road six ville, Danville, Adams, Lafayette, Pacheco, Pittsburg and Union miles east of Norton-ville, also ship their coal products over a road six ville, Danville, Adams, Lafayette, Pacheco, Pittsburg and Union miles east of Norton-ville, also ship their coal products over a road six ville, Danville, Adams, Lafayette, Pacheco, Pittsburg and Union miles east of Norton-ville, also ship their coal products over a road six ville, Danville, Adams, Lafayette, Pacheco, Pittsburg and Union wills, and or a complete of the County wills, Danville, Adams, Lafayette, Pacheco, Pittsburg and Union wills, and the county are Judsonville, Somers and Union wills, and or a county of the county are Judsonville, Somers and Union wills, and the county are Judsonville, Pacheco, Pittsburg and Union wills, and union the county are stated in the northwest corner of California, has an occan frontago of 32 miles in the northwest corner of California, has an occan frontago of 32 miles and occan frontago of 32 miles in the northwest corner of California, ha

last year. The Black Dumond formishes employment to 250 men, and yields 72,000 tons anunally. With the exception of coal mining, Contra Costn is mainly an agricultural county; her exports are wheat, barley, outs, butter, fire stock, hay and coal. The topography of the county is low hills and small ralleys. The central willey is about fifteen miles in length, and from one to six miles in width. The various manes of Pacheco, Ygmacio, Diablo and Wahnut creek are applied to this forth's eetton which yields an abundance of cereals and fruits. Crops rarely fail.

San Ramon is the sectond willey of some tenniles in length, and from one to two miles in length, and from one to two miles in width, extending from Wahnut creek to the Alameda county line. It contains some of the pleasantest homes of the county. In its western portion there are a number of small, fertile valleys, such as San Pablo, Pinole, Briones, Rodeo, Tapiar and Albambra, all settled with thrifty farmers. The farming lands in the castern section of the county extend from Bay point, a spir cust of Mount Duablo, and between the loot-hills and the San Joaquin river to the county line, being 23 miles in length, by from three to six in width, and undirece about 164,000 neres of arable land. The soil is, generally speaking, of a rich, allurial nature, and produces wheat and barley. To the northward, and between the uplands and the San Joaquin river, is a body of the lands, enbruency, in all, some 500,000 neres.

Situated in the northwest corner of California, has an ocean frontago of 32 miles, and extends cost 42 miles, being nearly square, with an area of 850, 400 miles. Its topography is a succession of mountain ranges, in the western and southern portions, which are well timbered with redwood, hemiles, spruce, cedar and pine, while in the castern part the sarface is broken and mountainors. The face of the country, in the western portions. The face of the country, in the western portion of the country, slopes toward the sen. The Khunath river enters inideay on the castern line, and flows southwosterly into Humboldt for 50 miles; it is the second largest river in the State. It was dichared marigable, by the State Legislature, for a distance of 60 miles, to Orleans bur. The principal harbor is at Crescent City, which is located on a small bay, in latitude 41 degs. Il min, longitude 120 degs. 19 min, and is 220 miles north of San Francisco, by mater, and about the same distance south of the Columbia river. Vessels find good anchorage in live to seven fathons of water. Two lines of steamers ply between here and San Francisco, there is an innecess amount of Government land, both agricultural and mineral, in 164 Norte county. No finer redwood tunder can be found on the coast than is here, within a few miles of the harbor and within easy reach of the place. Gold mining has been steadily and successfully pursued since 1851. The most important gold mines in the county are at Happy Camp; they are mostly hydraulic diggings. The production of gold is fron \$200,000 amunally. Immense deposits of iron ore, of various grades and choses, are found in different parts of the county, the bulk of which is in the vicinity of the copper

rounded by mountains, the only means of reaching the place being by mountain trials. The country around is rich in gold, and the town's chief sup-port is in mining.

### EL DORADO COUNTY

Has an area of 2,210,000 acres, and may be considered a mining county, although considerable farning, duriying and fruit-raising are carried on in the western portion, while the eastern portion is heavily timbered with pine, bit, oak and other monitain tamber. Among the best developed mines are the Church, Union, the Placerville gold quarter, Moint Plensant, Grand Victory, Rosakraus and a number of others. Hydraulic mining has been extensively carried on in the vicinities of Placerville, Greenwood, Heorgetown, Colonia and other portions of the county, besides the placer, sluice and seam diggings in other sections. From copper, silver and slate are known to evist, the latter being norsked to some extent. Farming is, as yet, in its infancy in this county, and there is a long one, and is the most probable. Those engaged in it are provided with two ranges; one in the lower foothills, for winter use, and the other on the eastern borders of the county for summer. The latter is at a lingh altitude, and is usually covered with snow until the first of May, when it disappears, and the most probable forth and keeps green all summer. The restern and central portion of the county, the involving line of snow and tran, is especially suited to the rasing of line fruits, such as pears, peaches, apples, plains and fine grapes, which are associated in the rolleys.

Placerville.

The county seat, one of the oldest and largest mountain torms, has, at present, a population of

ahout 2,500. Georgetown, Greenwood, Culoma and El Darado are all old mining towns.

The county is well watered by the American river and its immercus tributaries. The system of emuls, which supply water for balding, mining and irrigation, is misurpassed by that of any other county in the State.

### FRESNO COUNTY

Coulains 5,600,000 acres, of which 4,000,000 acres may be classed us mointainnus and postural land, aminent 1,200,000 as septentural and fruit lands. This county lies between the 30th and 31th degrees of intuitively and is very nearly the central part of Colifornia, extending northwesterly and southievesterly a distance of 120 miles, and its average breadth is something over 65 miles. The central portion of the county comprises a large part of the great San Joaquin valley; its lowest portion contains about 300,000 acres of marsh and his dands, formed by the waters of King's river, which during high water, are parily covered with the mingled waters of King's miler, which during high water, are parily covered with the mingled waters of King's miler, and lack the castern two-fitchs of the county is moontainous, compileing the highest porline of the Slerts range, and the most elevated mountain region in the United Seates extendeng from Mount Lydell, on the north, to Mount Typ-dall, on the south, a distance, along the range, of over 100 miles. Within this region rises the Fresto, San Joaquin and King's rivers, and perpetual banks of anow and ice. Fresto contains 40 thing discients, some of these, lying under the error of the Pallsades, loftiabout two miles in length; and, also, muny of the being ust peaks in America are found here. Mounts Goddard, King, Gender und Tyndail are upwards of H,000 tecl above sea level, while a large number of other peaks approach very nearly that height. There is no pass over the summit less them 9,000 feel above sea level, on the south of the heaviest bodies of thater in the filiae, and is some localities groves of the lag trees, or acquisite groves o

are nearly all in the vicinity of Fresno City; the oldes, the Central California, has almost 80 families. Immediately aljoinlog it these the Washington Tritating Colony, which cubraces cleven square miles. This is bein out late twenty-acre track. The land is usually learn. Here is now a population of about 330 people. Between the first-named colony and the city of Fresno lies the Fresno Colony, which, this its pre-increasing has been subhiyided into twenty-acre tracts. About three miles northeast of Fresno to twenty acres cache which is divided into 95 lots of twenty acres each. With each toll is soil a pripetual water right for purposes of Irrigation.

Selma

With each lot Is sold a perpetusi water right for purposes of Irrigation.

Schma

Has a population of 500. The country is nearly level, and the Centerville and Kingsbury canal passes through the ontskirts of the town. About six miles south of Schma lie third largest lown,

Kingsbury.

Is reached, which is situated a short distance from King's river, on the line of the Southern Pacific Rullroad. This place contains about 400 inhabitants, and is located in a time agricultural country, level as a licer.

Madern

Is situated 23 miles porthwest from Fresno. It is at this point where tourists leave the train and take the stage for Yosamile valley. The other towns in the county are Centerville, Buchanau and Toll House. The entire population of Fresno county is 12,000.

### HUMBOLDT COUNTY

Contains an area of 2,211,840 acres, being three times as large as the State of Rhode Island. Its length from north to south is 108 intles, and its greatest breadth is 8 miles. There are no large valleys, it consists of rounded ridges, with prairies on top, and wooded sides and small valleys between. No spill on earth, of qual extent, was ever favored with such wealth in forest, so

and Areals, there are thousands of peris of swimp and overflowed lands; from Euroka, south, are what is known as the Hookton Bals. Then there is another large tract of Isaid, from the Island to Mad Piver and the marsh south of Euroka to Humbeld point and still further south to the munit of Ect river, and all of which would be easy in rectain. The value of them lands, when once reclaimed, would be inestinable.

#### Eureku

The county seat, has at present a population of 5 000 people, and is the most important place in the county. It is tested on the eastern shore of Humbold bey, about midway between the cuttered and the northern end of the bay, and is the principal shipping point of the vonty. Several three of steamers ply between this point and San Francisco, beaders, vessels from all parts of the world come in bere for the excellent redwood humber manufactured here. A daily line of singes also run et all vicerials to San Francisco, allst ance of 215 miles. Eurem also has several local lines of rathroad, principally for transparintly lumber and logs from the interior to tide water. Considerable ship billiding is arrived on here by its especies parish, this heing an religible location, as the material for ship hullding is to be had in shundance.

Arenta
Is connected with Eureka by steamer across the bay, a distance of some seven miles, and by a wagon road, a libiance of twelve unites. It has a population of about 1,000. The fine agricultural and fruil lands thu surround Areats are of wonderful furillity, possessing a soil tail is differshy inchansithe. It has was redwood forceds in the background, that generations will not exhaust.

### Ferndale

Has a population of 785 prople. It is connected by daily stage with Eureka, and is located some eighteen miles apulla.

### Rahmerville

lias a population of \$10 people. The lown is situated

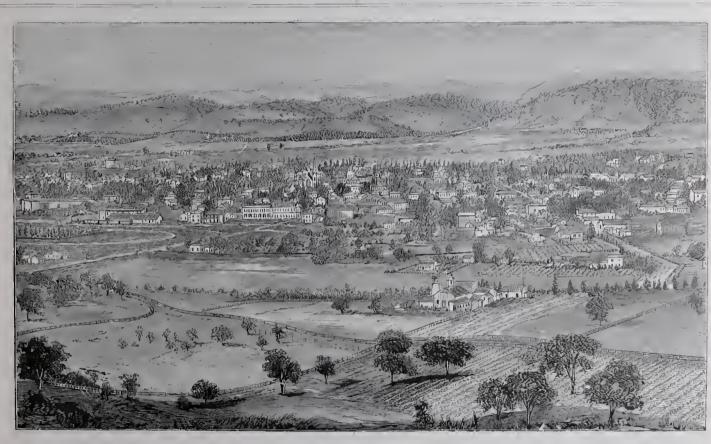
posite the headvalers of the Nan Joaquin, and flowing thence at distance of 150 miles south, where it is last in Ower's lake. This valley is about 75 miles long, and from two to five miles wide. The principal farming is within this bashi; not, however, in the valley of the river proper, but in the numerous small mountain streams flowing down from the Sierras on the west, from which the water are derived for irriginion, producing wheat, barley, oats, corn and fruits—principally peaches and grapes. Whatever the farmer products flow freely sale, at good prices, in the immediate mining districts of Inyo, and across the line in Nevada. One of the richest nines on the Gosst, known as the Umon Consolidated, of the Gerro Gordo district, which lies in the Inyo mountains, forming the earlean boundary of Owens valley, has atrendy yielded over \$10,100,000. In the same district are other noted unines, such as Ygnach, San Lucas, and Faimers, the flex Montels, and other mid pedest localities are situated in the Kearsage peak, directly west of the town of Independency.

### Independence,

The county seat, situated on the western aids of Owen's river valley, with a population of 350 pendion in 1889 the whole county had a white population of only 2,838.

tion of only 2,898.

The mineral resources of Inyo county are not yet prospected. If railroads should ever lap that county, which, no doubt, they soon will, this sparsely settled county, with her monotains of silver, her mineral leak of borax, and her ledges of gold quariz will trein with industries which, at present, are search it thought of. The area of the county is 6,500,000 acres.



### NAPA CITY, NAPA COUNTY, CALIFORNIA,

tea, in which some single trees are found measuring 120 feel in circumference. Of the 5,500 square tallies of mountains in Fresno county at least four-fitbs are in the Sierras.

Gold-hearing quartz has been found throughout the raige. Generally, when the range is broken by senins of slate, the several mines, opened and being opened, promise well. Likewise, mines of exper have been found, and one or more of them worked. The higher or timber range, is less broken than the footbills, though the ravines are despire and the geological formations more varied. The soil, generally, is darker and richer. Small mealows and mars when the standard comparatively level, timbered plateau, reaching back well loward the summit, over which a railroad line has been surveyed, designed to become part of an Eastern route. Between the San Josephin and King's rivers the country is more broken, the evidences of both volcante and glacfal action more numerous.

administ, and the varieties of rocks and minerals more immerous.

Fension county has 2,023,803 arros, a Hitle ower oncommendation of the folial area, lying in what is known as the great San Joaquin valley. This valley, calculating from the Sacramento river south to ever Tepin, has a length of about 250 miles, and an average breadth of about 250 miles, and an average breadth of about 50. The valley portion of Frenanc county occupies as cellen about 50 miles square. Several distinct regions are furned, dishinct in rato-fall distinct as to depth and character of water and the general fredition for triggining and cultivation. The territory of the cast sidd as due to miles and cultivation. The territory of the cast sidd as the timest overy variety of soil, and a due of varieties may be often found within as area of two miles square.

Fream City.

On the first of May, 1872, the railroad company forms.

From City:

On the first of May, 1872, the railroad company formally located the town, which is attuded murt the generalized control of the county on the line of the S. P. It. 1, 16 follows the county of the line of the S. P. It. 1, 16 follows the county of the town the City new Date 2,000 inhubitants, and, in the animal of business done and general thrift, she rivals many of the towns of California of double has ge and aquitation. The coborder of Fresne county

accessible to the world's highway, as Himboldt. The largest area of level land is in the vicinity of Himboldt bay, on the western line, about miniway between the north and south line. The area of the bay is from 30 to diagone miles, a bridge and the large state of the bay is from 30 to diagone miles, a bridge state of the bay is from 30 to diagone miles, a bridge state of the bay is from 30 to diagone miles, a bridge state of the bay is from 30 the rear only 15,255 people within its borders, the unassessed tands amount to 1,883,160 acres. Of this shere he not more than perhaps one tent in the borders, the unassessed tands amount to 1,883,160 acres. Of this shere what might be called grazing lands, the most of 11 be lug covered with an inferior growth of standard limber, while some of it may come under the head of numeral lamis, which are located in the north end of the county, and coasies of gold, allower and quartz ledges. Some copper ledges have been discovered in the southern portion. Coalis also known to exist in portions of the county. The agreentural tands this are being farmed within the only. The agreentural tands this are being farmed within the only. The agreentural tands this are being farmed within the only. The agreentural tands the area of the county. The agreentural tands the first include the miles in width, amounting to short 176,280 acres; this limber will furnish from 50,090 to 190,090 acres; this limber will furnish from 50,090 to 190,090 acres; this limber will furnish from 50,090 to 190,000 feet to the acre. The number of feet of shamiling redwood is variously estimated by roll men, and the lighter agreen are from 70 to 100,000,000 feet to the acre. The number of feet of shamiling redwood is variously estimated by roll men, and the lighter are some length called the position of the land of the position of the county.

Humbold is one of the best watered countries in Cal-fornia. There are some rick gold deposits in the country. There are some rick gold deposits in the country. Ornans bur, in the north east corner, has long been known as a rich placer field. All Gold Binff, on the northwest side, are the black and beach mines that have been worked for twenty years, with good relume. Placer nothing has taken a new start, min a lorge amount of capital la being invested. There is little or no ejeculation in this industry, for, with capital and good judgment, the relumes are asserted as any other la-githmate univergias.

gininate enterprise.

The low hands of Humboult county are courtly af note, alloudy Hitle attention has been gald in them as yet. In the vicinity of Humboldt bay, between Euroka

22 miles southeast from Eurika, and is pleasantly located in the rich valley of Et-1 river, one mile north of the stream. The principal wagen road of the caunity passes through the place. It has an excellent terming and graphs country on one side, and redwood timber on the other, to back it.

on the other, to back it.

Hydrax file

Has a population of 300 people. It is shinated on high table land nearly 300 teet above the level of Eel river valley; it has a time farming country to back it.

Trintaint

Lies northwest from Eureka, a distance of 72 miles; it is on the seven; a fine harbor is hirro, and a Government light-house. The other towns are Table Bluff, Honkton, Petrollo, Bloshurg, Garberville and Springville, nearly all supported by the humbering interests of the county.

### INYD COUNTY,

Lice east of the Sicras, the summit of which forms its western boundary. It is almost as much isoluted from San Francisco as though it belonged to some other State. This is a country where extremes meet, a country of sharthing contrasts, such as are to be formed bowlere else on the continent; a country of rugged and ginnt peaks, among which are Mounts Whinney, Tyndall, Prever, and others of the Sinras, the most elevated portions of the American continent, with classins such as to render an ascent to their summits, from their eastern idopes, almost an impossibility; a country where, to the eastward of these, pointing heavenward, the level of the scartle's surface anks humineds of feet beneath the level of the sea (Denth valley, which is elsewhere therefield; a country of hearnful and fertile plans and, at the same time, of torbidding instead, and almost only valley capable of sottlement for agricultural purposes, is the valley of Oreal's river, which takes its water from the Sierras, nearly op-

### KERN COUNTY.

The valley portion, although covering nearly 1,000,000 acres, is but a small purtion of the county, as the entire larea is 5.137,209 acres. The topography of the county is exceedingly diversified. Kern River heads in the mountains fashieses of Thiere county, and breaks through the trianic hills, down a deep precipiants gorge, descending many they become the plants. As it reaches the valley it spreads into the plants as a stream that a sight the stream they have been a solid because the state of the stream that a sight timed into the stream that of its original bed. Kern but he stream that a sight timed into the stream that of its original bed. Kern but of the round the stream that of its original bed. Kern but of the round in the stream that the st

### Bakersfield,

The county seat, is situated in a grove of large cot-

ton wood, sycamore and willow trees, on the sandy bottom, adjacent to Korn river, and about one mile west of the Southern Payric Rattroad. It has a spipulation of about 1,090. The second largest town in the county is Simmer, the railrand station for Bakersfield, and claims a population of 200 instantiants.

Tehichip is at the summit of Tehichipi pass, ou the rattroad, and has considerable intervets in lumber, wool and marble, of which a rare variety has recently been found.

Majave, 370 miles south from Sun Francisco, is in the great Majave divert, on the castern side of the mountains. Stages have this point for ludependence, hyde contry, L50 indeed distant.

### LAKE COUNTY,

LAKE COUNTY,

Some 75 miles due north from San Francisco, is one of the smaller counties of California, incying an are of 624,000 acres ut surface. At present it is somewhat isolated, as there are no railrinads fouch of the California Paethe, is sume twelve inites from the California Paethe, is sume twelve inites from the california Paethe, is sume twelve inites from the south line of the county, and Choverdale, the terminus of the San Francisco & Marile Paetho, is filten inites from the west line of the county. The general topography is rolling and hilly. Locasted in the Coast Range of mountains, Mount St. John, highest point in the vonity, its situated in the extreme north end, sume 4,000 less above sea-level, Clear lake, which his nearby in the undille of the county, forms one of its principal lestures; this lake is about 22 unless in length, with an average of from three te six in length, with an average of from three te six miles wide, lying from north-wast to south-west. The Blue Likes, three in number, are surrounded by some of the finest scenery in the country. Cache creek, clear and sparkling, is the outlet of Clear lake. Putali and St. Helena creeks

and is beautifully and picturesquely situated, About seven miles southwest, is

Kelseyville,

In Big valley, one of the finest agricultural sections in this county. This place contains about 600 mhabitants.

Lower Lake,

Is a place of considerable trade, it being the mir-ket-place for the Sulphur Bank mine, in the imme-diste vicinity. Here are also several productive, fine valleys. The town now contains about 700 in-linitiants, and is quite a liminess place.

labitants, and is quite a business place.

Upper Licke,
Abant one mile from the upper or northern partion at Clear lake, contains about 330 people. In the extreme south end of the county, is the village of Mtdlivtawn,
A place of some 400 inhabitants, in the vicinity of which are located several of the quickstiver miner. What Lake county most needs is railroad communication with other parts of the Sinte, then this favored district, with the invigorsting clinate, beautiful secuery, lorests of timber, mineral springs, her extensive time deposits, postures that afford grazing for hundreds of thousands of sheep, sunny hill safes, the natural hume of the grape, fine from and vegetable lands, lands that are civing, will become known. The census of 1880 gave Lake a population of 6,127, which, at present, may be 6,500.

### LASSEN COUNTY

Has an area of 3,640,000 acres, and is very irregular in shape, being about 103 miles in length, from north to suith, and 50 miles in wildt. This comparts is a succession of minuman ranges and valtys, and has a general trend to the south-east and north-

Milford,

Twenty-live miles from Bussnville, on the Reno road, and in the lawer end of Honey lake valley, has about 300 rababitants. Opposite the hown, and across the lake, which i about ien miles wide, there is an extensive stretch of hay country. In the named the vanisty of the town size as fine ordered as can be found in the State. The chimate here is pendiarly adapted to the ratsing of fine apples, poars, peaches, plums, grapes and other fruits.

pours, peaches, plums, grapes sud other fruits.

Midway between Susanville and Milford, has about 350 inhabitants. A low stillys away, and within the same voting previnct, is the small town of Buntingville, surrounded by some of the fisest farming lands in the county.

Johnstonville,

Eight miles further up the valley, on Susuu river, bas a population il 300.

Bleber

Hieber,
A small lown in Bic valley, near Adin in Modos conney, and about 25 unites from Hayden hill, has several hundred inhibitants. It is a depot of supplies for the mines of Hayden hill; these mines of the several proving to be very rick. The mines at Mounthun meadows, on the divide between Plumas and Lussen countries, are said to pay well.
Lassen country should have a prosperous fultire, as it has at least a million acres of fertile land susceptible of cultivistion. At present, it has only shoul 3,500 inhibitants, the greater portion of whinin are scattered on the farms in the various valleys.

LOS ANGELES COUNTY,

Is the most southerly county in the State, save that

and as devoid of vegetation as a barn flour. At present there are orange orchards bending beneath the weight of fruit, besting vines of every variety, also overy variety of notice and overy variety of notice are corn, batley, ryo, beans, intuitioes, ontons, hops, dax, etc. The other nows in the southern portion of the county size Westminster, Gardin Grove, Thatin City, San Juan Caphersno, and Norwalk.

of the county are Westminster, Gardin Grove, Tustin City, Sai Jusii Caplairsno, and Norwalk.

Westoricaty,
Six miles west of Anaberta, is a thriving place, and is noted for the nimber of its artesian wells—about 400. Garden Grive, about three miles from Westminster, is surrounded by land that produces immense crops of cern. Tustin city is situated two miles east of souta Ana. Orange is a pretty place, and very apily named; orange is a pretty place, and very apily named; orange is a pretty place, and very apily named; orange groves cluster thickly all around the settlement. Sain Juan Caplaistrano, 33 miles south from Santa Ana, is immonshielly for the possession of a picture-eque old Missim, built in 1776. The cell-brated Black Star coalmine is twelve miles vast of Anaherm. Bev-keeping in the neighbouring mountains is quite an industry. The caupons are critiveded with Bec ranches, producing large quantities of honey.

From Loss Angeles cast via, the Southern Pacific Radirond, a sturt distance, brings me to San Galiriel valley, one of the fuest actions in the county. A leventh's from the railroad is Passadens. From here soutwest to the Santa Ans Rancho in the county and distance of fifteen miles, the country has become almost an obtroken vincyard and orange orchard. To attempt its description would occupy too much space. Some five miles east brings us to the villages of Savanual and Lexington, the binsiness contexts of El Moute settlyment. Downie City and Gospel Savanual and Lexington, the binsiness contexts of the first produced of the context of the produced of the part of the part of the part of the part of the context of the first of the part o



## SANTA ROSA, SONOMA COUNTY, CALIFORNIA.

beed in the southern portion of the cunnty. Mid-dle and Clear creeks, two beautiful little-streams, empty (nb) Clear take. One branch in Cache creek beads up in the northern portion of the county and has a course of some 25 miles within the bo-dets. There are immercus other anial moniton

dets. There are immerous other small monitals streams.

Lake county abounds with mineral springs, the waters of which possess great medical virtues. Barilett's, Highland, Harbin's, Pearson's, Serigh's and Autier-on's are the beatknown abroad, not there are a dozen others whose waters are very fine, and which will became lamous in time. The agricultural portions of the county are Clear lake valley, gig and Long valleys, on either side of the take, and sociit's, Cobb, Cavine, Lower Lake, and Morgan Constitute the principal valleys of the country. They embrace, is all, from 80,000 to 120,000 serves. Couprising the very best limb for wheat, barley, oats, pointon, and vigetables of all kinds. These valleys are well watered and there is never any occasion (real inpoin artiflets) means to mente good crops. Farms generally do not exceed 300 acres in extent. The hills that surround the valleys are composed of the best of soil for gapes, and wherever, especially in southern Lake, experiments have been tried, the vine have proved very hardy, productive, and remunicative. Frint of all kinds, such as appless, pears, plants, apricots, peaches, and prones do remarkably writ; most of the orthards are young, and just country in most of the orthards are young, and just country in hearing. Sincepraising is one of the principal initiatins of the country, as the extensive range afforded by the mountains and font-fills make it a problable basing worked. On the east side of Clear lake is Berex lake, where that inneral is found in the moul. would, so the extensive range afforded by the anumitains and foot-fuller make it a prollable band uses. Several extensive quiteshiper mines are now being worked. On the cast side of Clear lake is Borax lake, where that mineral is found in its mut.

Inkeptort.

The county seat, contains about 1,290 inhabitants,

west, interspersed with numerous besultful lakes, the largest, located in the south end of the county, its called Honey lake, and is situated in a beantful valley of the same name; this valley is 45 mites in length, with an average width of to no fifteen miles, and entoraces the principal fartning land under present enthrwistion. Long valley lies in the extreme south-east of the county. In the extreme north-west corner, and extending into Modoc county, lies Big valley, a large streigh of agricultural land of the containing. In Lassen county, about 75,000 acres, which is will wintered by Pitt river, Ashove cover and a number of smaller streams. Between Big and three lake valleys lie Grasshopper, Willow creek, Eagle lake at all Gross lake valleys, to particularly and the proposed of the county and the particular of 5,000 leet. It is about 35 to 15 miles in except, and, at present, is nearly covered by a dense growth of sage brinst. The only natural source of irrigation appears to be the surface and the principal covered with numely grass, affording abundent freely. The source of the county until they fall below the timber belt of the Sherras extends into the vastwin portion of the county until they fall below the timber belt of the Sherras extends into the vestwin portion of the county until they fall below the timber belt, This timber, consisting of pine (yellow and engar), spruce and fir, will in him, when the ratiroal reachs the county, he valuably.

of San Diego. Its entire southwestern line borders on the ocenu. It has an area of 3,080,000 acres of surface, the Coast Range of mountaine running diagonally through the county from a northwesterly to a southeasterly direction, dividing the county into two capality are productive portion lies in the southern part of the county. In the mountainous portion of the county are ninearcus visitoys, each one being different in climate, as well as many different qualities of soil. The city of Los Angyles, which is the largest city on the coast south of San Francisco, is a great ruiroal contertor all southern Colleges, which is the largest city on the coast south of San Francisco, is a great ruiroal contertor all contertor all contertor all contents and the content of the finest fruit sections in all California—principally seem i-tropical; such as oranges, lemon, limes, raisin grapes, olives, etc. The city centains many hinds much public and private buildings. As Los Angeles is a great railroad center, it cuntains many hinds wholesale house which have an extensive trade throughout southern California, Arizona and New Mexico.

ACTION AND ACTION ACTIO

Country. Between Las Angeres and comma Ada to And techn,
Settled by the oblest and must noted colony in the history of the State. The whole cylony is subdivided into 20-acre larms and upwards, and for the cultivation of the mangar, behaving and lime, the family dwintness is misurposed. The settlers are principally Gyrmans, who cultivate every finit of haid, and it is really astomologing to see what a few years of well directed energy will accomplish in this won-retinic contry. A low years sign, before water was futroduced on to this hand, it was a harron plain,

San Jose visitey, watered by San Jose creek; this is also is the agricultural section. The next station cast is Pomona, the eastern limit of the county, which is quite a large village, and is growing sapidly. There are many other valleys and settlements peculiar to the melves, which we can not mention for munt of space. Los Angeles had a white population, in 1980, of 33,749, which was largely increased within the past two years, and at the present writing, it has no lives that 30,000. Taking into consideration the divertified suit, valleys, toot hills, elevited platus and line, geniat ofmate, we must say Los Angeles has a bright fature.

## MARIN COUNTY

base at arou of 30.7,166 acres of surfay: 311,439 acres of this is uplant, white 12.05 acres is swring and cover the inflation, white 12.05 acres is swring and cover around the property of the pays and estimates and 12.790 acres is title land, white twill, some day, be bessed in and become very valuable. The surface of the country is mostly braken and stilly, and a great dead of it is composed of high sand sharp rigged lidly, which, in several instances, ultim elevations sufficient to entitle them to be demonstrated mountains. Now this standing is high printer the land is very valuable. The prevailing winds of some come from the sea and poor upon the hillest and valleys, in the western and souther up juries of the property of the sea and poor upon the hillest and valleys in the western and souther up juries and souther of parts of the hillest and valleys in the western and souther up juries of the which has been applied to the prevailable of the property of the sea and poor upon the season of the season of the season and the state. As a consequence, this section of green grass is sought after in darkymen, white would keep up their supply of Iresh butter. However, and entry lay, Martin e unity was and be now occupied by the most skillful dairy non in the State. The population of the county, in 1880, was 11,337, besides the function to the county in 1880, was 11,337, besides the function to the county in 1880, was 11,337, besides the function to the county of the season of second and only four six to eight into those second and only four six to eight into the time of the function of the order day, may be last the finest view of the Odde in

Gate, Hie bried waters of the Pacific, the entire surface of San Francisco bay, hestica eight or ten towns, either and villages mound this, one of the times burbors of the known world.

### Spin Rufaul.

The character is unequalited for health, and is the boine of many San Francisco business men. Many thousand people, shiring summer months, resort to the vicinity for plenies.

### Suurellia.

Six miles from San Francesic, is connected by ferry, making long trips per siny. It is built at the base, and on the sinps of steep hills, and is the principal depot for the N. P. C. R. R. San Quentin is twelve miles from San Francisco, and is connected by ferry, the N. P. C. R. R. and the S. F. S. P. R. T.

N. P. C. R. R. and the S. F. R. N. F. R. R.

Tennules,

Fifty-five miles from San Francisco on the N. P. C. R. R. is the conter of the principal farming and distrying country of the county, and routains about 40° almost cauls. Niesto, Novate and Olemo are small stations along the radroad. Bolimas, on a bay of the same amer, near the coast, communicates with San Francisco by satting vessels. The bracking climais, chean living and fine security make Marin a desirable place for city people to apond their summer vacation.

### MARIPOSA COUNTY

MARIPONA COUNTY

has an area of 1985,000 acres, the greater portion of which is monitamous and hilly, and is remarkable as containing Yo Semile valley. The topographical features strongly resemble El Dorado, Amader and Palaveras, as il orcupies insarly the same position on the western alope of the Sierras, it easiers portion is above the snow line and its western borsher extending into the great Sau Jongnin valley. Mariposa is one of the Shertas, which consists of excellent saw timber, or high resemble the same position of the Shertas, which consists of excellent saw timber, and he saveral species of pine, spruce, it and Separate or high resemble the same position of the Shertas, which consists of excellent saw timber, and he saveral species of pine, spruce, it and Separate or high resemble the same principally gold.

This is, strictly ore are probably more gold-bearing quarts that are to be found in any other territory of the relate in the State. A large portion of it is not all prospected. Twenty-six quarts mills are within the limits of the county. The placer toines have been fabrically strongly rich in coarse gold, and the preclusion metal taken from the Mariposa micros would figure up to the millisons. Some of the principal intime in the county are the Washington, near Horthos; the Fergisson, on Mercentry of Martin, Walling, Protosi, Walling, Protosi, Martin, Walling, Protosi, Martin, Walling, Protosi, Martin, Walling, Protosi, Martin, Walling,

The soil, in ibe valiety pertion of the county, as usitally fertile, and adapted to
limited farming—especially
where water can be had torirrigation—replicipally fruit,
vegelables and grasses. Fruit
and grapes raised here, in
the small valleys in monitairs, have a peculiarly fine
flavor. Sheep raising in quite
au industry in this county.

Towns.

## Towns.

Towns.

Maripova, the county seat, contains about 700 people. Hornitas—an old minding tortu, on the size road by the size of t

## MENDOCINO COUNTY

Has an area of 2,280,000 acres, and the surface of its territory is quite mountations and broken, the Coasi lange occupying its cultic extent, some of the highest peaks traching 4,000 feet. Mendocino is one of the best watered counties in the Stale. The Russian river flows through the southern part of the county, torming quite an extended valley within its borders. Eet river waters very valuable agricultural lands, tuchnding Edica valley. Beades these, there are the Navarre, Walisalia, Albion, Nayo, kito Grand, Gorrela, Unduling, and Little three, with the Grand, Gorrela, Tudding, and Little three, with the Grand, Gorrela, Tudding, and Little three, with the Grand, Jordan, Tudding, and Little three, with the Grand, Jordan, Tudding, which is the same and a line has attable apply? This relivoid limber belt extends all along the cost, reaching best from eight to the miles, and in some instances along the alreadous farther into the triletior. A number of the attention and in the cost in the cost of the attention of the streams, flowing into the cost, affect very good harbors, at their months, for steamers and cossiling vessuls during a greater part of the year. Among the most prominent pobles upon the cost of the streams and account of the stream of the cost of the stream of the cost of the stream of the cost of the cost of the stream of the cost of the co

Ukin b.

The principal town and county send, siluated in Russian river valley in a fine agricultural country. If miles from the terminus of the railroad. It has a population of 1,200.

the terminus of the railroad. If has a population of 1,200.

Alemin-the CHy.

Located on the roast, 65 miles northwest from Ukish, has 900 people, largely interested in the lumber trade.

Prior Alemia

Is a town of 500 lubabitants, and is structed on the const. There are a large number of small lowus in the county, manely: West Port, 500 lubabitants, and is structed on the const. There are a large number of small lowus in the county, manely: West Port, 500 lubabitants, Casper, 500; Willels, 809; Covide, 300; Chilo 200; Gusteville, 150; Covide, 300; Chilo 200; Custeville, 150; Covide, 300; Chilo 200; Custeville, 155; Boonville, 50; Little River, 100; a number of small covide, 50; Little River, 100; a number of smaller places, 181; Are, Auderson, Big river, Britaphari, Big Rock, Bichanan, Beal's Landing, Bine Reck, Christine, Omerica, Garoll, Casper, Cottonine, Ect river, Galloway, Garcie, Hol Springs, Lima, Long valley, Mauchaster, Oriental, Potter valley, Sherwood, Sand, Mily at his struc, is folly 16,000, and and and the capabilities of the county are sufficient to support too times its present population.

### MERCED COUNTY

MERCED COUNTY

Has an area of 1,155,395 acres, embracing the whole with to the San Jasquin valley. The population for 1800 was 5,500, which may have reached 6,000 at the 1801 was 6,500, which may have reached 6,000 at the spitch to cultivation, the remainder being suitable only for praxing. In sussons of almonian rainful excellent crops are mainred, the yield of wheat, in some classes of land specially adapted to its growth, being frequently as high as 50 bushols to the acre. The general failure of crops, in a seeson of little rainfall, points for child the seeson of the past, in this regard, are not unheeded, as the farmers have organized various trigialing enterprises on a large scale. The geological formation of the country is such that towing water, from ariestan wells, may be obtained at a depth of from 250 to 300 freel. Numerous wells have recently been successfully bored

nishes communication for the Russian river valley, and stages run daily train the latter place to mechinery.

machinery.

Mercest City

Is surrounded by a body of fine farming land, and is contrally localed. In addition to the trade of the vicinity if commands a large mounted frailic from Martinosa country. Merced has, at present, a propulation of 1,700. The second largest to the the country is

Situated on the Siorkton and Mariposa wagon road, six free miles from Merced, with a population of 150 The other towns in the county are

### Plainsforg.

A railroad shipping point for miles south of Merculi-which has large gran warehouses and about 100 linbab-tions; Althon, also a railroad station, with perhaps for mabitants; Cressee station, a gran shipping point, on the railroad; Alwator, sk miles north in Mercel, is a grain shipping point; Los Banos, a Spuish lewn on the west of the San Joaquin river, contains a popula-thu of 100 people, Central Pohil and Hooplou.

### MODOC COUNTY.

In the porlineat corner of California, has an area of 2.750 unit acres, and is known as high table lauds. Along the sactora burders, lying between a singe of mountains, we thin a cala of like seaternling nearly across the entire width known as Upper, Middle, and Lewer lakes. These lakes are from two to four mills with. About eighlers units west from the northwast corner of the Slate as those lake, extending into Oregon. This lake is about 30 miles long from north to south, and some ten miles wide. In the northwast corner is Riett lake, lying mostly in Sisklyon county. A few nailes to the east of clear lake, some three hyw entires in extent. The entire county is a succession of hills, mountains and valleys, the Warner range in the eastern portion of the county being by far the most extensive. Between this range and the chals of lakes is a beautiful lettile limber, such as pine, cedar, juniper, laurel and tensive near any interest as a considerable inherence and First Rieder of the range in the calating protting of the valley, and the principal county has been suffered engineering the county as present is eighteen years, jet there are four moderate sized towns in the arms and successive and only so conditions.

tailest of which are Mount Dana, 13,027 feet; Mount Lyell, 13,047 feet; Castle Prak, 13,000 feet, and many offers o lesser note, whose peaks are covered with perpetual above. Own and Walker rivers are the principal mass in the county. The farmer passes through the sonthern part of the county, and the late ritering the mountains in the northern part. Among the mountains in the northern part of the county, and the late ritering the watern part of the county, there are a number of small clevaled valleys which constitute the principal agricultural, or cultivated lands of Mouo. The eastern part of the county is of an alkaline nature, with volcanic traces of a mineral valancies, innost entitely unimproved.

The unipenal resources consist principally of code.

traces of a mineral rhataclor, simost entirely unlin-proved.

The inhemal resources consist principally of gold and silver, but ropper, whe, from, jusper, and other inhemals are known to exist. The development of a great num-ber of silver velon has linen carried on since 1667. The principal districts are Boule, Castle Peak and Biltad Springs, and mills and reduction works have been es-tablished in all, Gold and silver are found in equal quantities.

## Buth,

The principal town in the county, is strictly a mining tawn. Its stitude is over 6,000 fee — highs I han any other town in the United States. Considerable mining teenfield on around Bodie. The climate is considerable minimum to considerable snow I also in with I, and ignormance are always coel and delightful.

## Bridgeport,

The county scat, is in an extensive valley, of fine agri-cultural lands, known as Big Meadows. Bridgeport contains several brudred inhabitants, who depend mainly upon the mining laterests for support.

## Benton,

Lies 76 miles southers from Bridgenori; Mammoth City, in the southwist, le as town of mearly the same tree, the beser towns are Celevita, greater, Dogowan, Eichop's Greek, Monivelle, Montgomery Greek, Monivelle, and Bonebylle. "The ceasing of 86 and 100 appellation of 7,499. In addition to the small of course of Mono, there are large forests of themselves susting of several spectres of pine, fir, tanarack, and other varieties of moniant lumber. All pre-cent there are some 16,000 acres of land made productive by irrigation. The lumber, agriculture, and grazing ludustries, on the whole, are lucreasing.

### MONTEREY COUNTY

MONTEREY COUNTY.

There is a great diversity of soil, oltmate and productions, owing to the account of the acco

miles, and from six to fitteen miles wide, and contains 600. Got acres.

The lands in this valley may be divided this the classes fitch bottom, got acres of the classes fitch bottom, got and for the group of a wint a subbriley; these stand dry rain before the wint a subbriley; these stand dry rain before the wint a subbriley; these stand dry rain before than any other in the valley; the uplands, which lie close slong the base of the monntains, in the lower part of the canyons and among the lower bills, are good for general isruling, stock ralsing and frost entire. Fully one third of the connity is monntain waste and not susceptible of cold time. Fully one third of the connity is monntain waste and not susceptible of cold times, the land of the connity is monntain waste and not susceptible of cold times. We will supplied, with railroads. The Southern Parime enters through the great Sal mas valley from Fajaro to Soleinai, a distance of 114 miles with a branch from Castroville (which is only ten miles south of Fajaro) to Monter y, skilcen miles.

Monter y, skilcen miles.

Moss Landing is focated at the month of Salinas river where it cutores Montercy lay. There are sixti en points in the county where the farmer can ship produce, either the produce of the by rail or by water.

Castroville,

Contains at present about 1,000 inhabitants. In this mostly been relaimed, making the very best of agricultural land; water is easily obtained at a maximum depth of 20 feet.

Salining City.

Is a young and thriving city, only fifteen years old, and at prevent contains 2,600 inhabitants. It has one of the function by well-

bigh. The valley is about lifteen noiles in laught, by six in width, and is watered by several branches of Frit river (one of the largest irributaria-sof the Sacranento), itselfing at Alturas, presculing a fine location for the town, which have apopulation of 500 people. It is associated the sacrane strength of the form of the town, which have apopulation of 500 people. It is a stression of firm of the town of the county. It is a stression of firm of the town of the county. It is a stression of firm of the town of the county. It is a stression of firm of the town of the county. It is a stression of firm of the town of the county. It is a stression of firm of the town of the county. It is a stression of firm of the town of the county is stression of the county is stre



## HOTEL DEL MONTE, MONTEREY, CAL.

In the region along the San Joaquin river, which flows through the county in a northerly direction, dividing the county into two nearly equal paris. The river mero is a fine stream, 100 yards wide, and for a mile or two outliner side the land is known as interland, and in whiter, during high water, is overdowed. It is devoted principally to estile raising. The next river in size is the Aferced, from which the county takes its name. Its average width is about 50 yards, entering the county near the northeast center, and slows at this rapidly along, forming magnificent water power far manufacturing, as its nears in San Jonatha the county and the manufacturing, as the nears in San Jonatha the county and the remaining of the manufacturing, as the nears in San Jonatha is few foot above high water, are the bottoms of the Merced, compused of rich alinvial sell, and profused in few foot above high water, are the bottoms of the Merced, compused of rich alinvial sell, and profuseling the recops of grain cotton, con, vegetables, etc. The lands between Merced river and Bear creek, on the south, are sauly. The third-rate lands are the tale lands, and profusel his sale and sale in the south of the sault. The third-rate lands are the tale lands, along the San Joaquel river, which are grazing lands. Then liters is a class of lands varying from a rocky, gravelly and slaty, sale and the sale of the sale of

Has some 350 praphe, and is in a fourtishing condition. Ten miles to the north, on the same read, is Lake Gity, stinuted on Mill ereck, surrounded by a long stretch or meadow land, and very productive. State is milen farther north at the bear of the valley is Fort Billy, which has several bundred inhabitants. All the goods and merchandise for the valley are banded by team from Reno, Nevada, a distance of 175 miles.

which has siveral hundred inhabitants. All the goods and merchandise for the valley are banied by team from Reno. Nevada, a distance of 175 miles.

The county seat, is situated near the castern evid of Hot Spring valley. This valley take its name from a large hol spring which throws up the water five or sky tertligh. The valley is about iffeon miles in huggi, by sky in whith, and is watered by several branches of Prity with the valley is about iffeon miles the huggi, by sky in whith, and is watered by several branches of Prity in the several branches of P

modate all horses. The grammis contain one hundred and stary acres of a brantifully-wooded, usinal park of pine, oak, cedia, and cypress trees, there are thouse and of young trees placed. Fire gram plots, swings, crespet granning, choice dowers and shruin pibe seen on every hand, beautiful rileves all through the park, and about half a mile west on a gradual leading the park, and about half a mile west on a gradual lead of the park, and about half a mile west on a gradual lead of the park and desirable betting place would be hard to fine. It has an desirable betting place would be hard to fine. It has not the kind in the Pulted Sintes at a cost of \$200, or, with large love, celd, plunge, sait, and fresh water baths, and ample accommodations in the high-housest 200 lishers. Between the bete land the occast is 7,000 ares of land; in more formantle, instinal park can not be found list the State; fine drives along the hey and ocean, smoog the thickly wooded sind rocky cliffs are being made. A drive to the lighthouse and through the qualit old town of Monlerey will simply repay a journey to this, one of California's listerical spirits. Monterly hands of one of the production of the town, 2,000.

NAPA COUNTY

worth. The makes by interest topolation of the town, 2,500.

NAPA COUNTY

le justly tamons for her productive soil, fine henlth-ful cilinate, which he pleasant the year round—the summers being cool and agreeable, and it he white's mild and aslubrious. It has an area of 40,000 heres. The hopography of this county is a succession of low monotain ranges and valleys, with a general northeastern and southern direction. The principal valley is known as Napa valley, and extends through the entire length of the county, beginning at Sulsain bay on the sinthern line, in a northwestern direction up above Calisting. This time fertile valley is some 60 miles in length, and Iron two to eight miles in length; it embraces about 66,000 acres. The soil of Napa valley is mainly a dark gravely loam, vory fertite and, during the sulley are all end up pinto amail tracts, range of the valley are all end up pinto amail tracts, range in size Iron Bee, ten, twenty, forty, one hundred and two limited acres, and occasionally, five hundred acres. Larger tracts extend up on either alde of the foothills and low mountain ranges. These hills are also tumbered with oak, usualroue, pi.-z, aldur and various kinds of mountain thubet.

Berryesa valley as some eight miles long and Iron one to three miles in width, embracing about 1,700 acres. The soil and general charactristics of his valley are similar to those of Napa. Between these two valleys to the unribweak, these Pope valley, which is some eight miles long, and from one-hult to one salte of the country of t

## Nirjia City

Nir in City

Nir regularly laid out, with broad streets, which are handsomely shaded. 'The husiness portion of the town is
built of brick.

## St. Helena,

An incorporated town of 1,309 people, is situated on the line of the Napa Valley Bultrand, eighteen mites above Napa City, and within three hours' rife from San Fran-cisco. The town coutains many elegant residences and one oburches. The Wilter Sulphur Springs, a becautiful tommer, resort, two miles south, Crystal Springs, three miles north; Etna Springs, on the cast—sil have an en-visible reputation for health and pleasure-seckers improved lead to the valley far regularly sought for, at figures that night seem high to those unacquainted with the surraundings. Northwest, through the valley, a distance of ulne miles, is the terminus of the rail-road.

Callatoga.

A blace of 850 lubalitants. This is also a summer resort, of considerable note. Midway between St. Heleoa and Napa, on the line of the railroat, is the village of Youniville, with 690 inbabitants. Oakville is four and one-half intea north, on the same line of railroad. One mile ferther up the valley, through a fine, improved country, is Rutherford, which is merely a railroad station, in one of the finest locations we have seen in the State.

## NEVADA COUNTY

NEVADA COUNTY

Has an area of 600,240 acres, and lies high up in the Sistras. The greater part of the coouty lies from live to six thousand feet above sea level. There are few portions of the world that can compare with it for variety of excery at climate. The lower districts are little above the level of the sea, and are soldom visited by foot or snow. The county is one of the best watered to the State. It has several beautful takes, the most noted of which is Dointer lake, situated on the sential readerul line of the county are Lake Independence and Webber lake; at lies latter, there is a fine sequence sort, and a line of tagen running from Trarkes, or the 6. P. R. R. up through support the part of the form of the first mountain scenery is America.

bla reging.

Thing exceeds all other infinitries in the county.

Thing exceeds all other infinitries in the county.

The ridge between the mittile and south Yubs is distinguished for its wast and almost continuous lines of

gravel bills, extending from the sunnel to the tootbills. The deposit of gravel is from 100 to 300 feet in

depth, and millions of obliars have been exponded in

setting the water in pipes, and ditches for miles to de-

velop the claims. Among some of the most extensive of the companies are the following: Milton, North Bleonafield, Blue Teut, Onero and Birlage, creek, These, and a unisher of other private claims, have yielded away up in the millions. Prospectors are constantly making new discoveries in various parts of the county. Nevoda county has 37 quarter-mills in operation, with no aspregate of over 500 shamps.

The instance of the county is an extensive one at the county is an extensive one and the county is an extensive one. The facilities of Nevala county, hold for Iravel and shipping, are excellent. The main line of the Control Facilities of Nevala county, hold for Iravel and shipping, are excellent. The main line of the Centrol Facilities of Nevala county in the Nevalac county from San Proucheo. The narrow-gauge Railroad at Coffax, 193 miles occurred in length, was built by private captulists from Nevada county clause. The largest city in the county in Grous Yatteen miles orth of Coffax, and 208 miles north of San Fraucheo. The lacet is north of San Fraucheo. The bast quartz nin-ling districts in the Stite. The capture of the order is now the scale of the county of the order of the second of t

The control state of the country's prospority.

Nevadir City.

The consty scal and second largest city in the country, has a population of 6,500. It is also the terminus of the N. C. N. G. R. R., and is situated on both sides of Deer creek, which lies in a drep canyon. It is spanned by a beautiful wire krider. Two stage lines leave ideally for Downheville, North Son Juan, Forest City, Graniteville, North Biominield, Lake City, Camptonville, Marysville, Dutch Flat, and all paris of northecasteru California.

Trickee

Has a population of about 1,200. The town is princi-

Has a population of shout 1,200. The town is princi-pally supported by the immense Innihur Interest, and itse 250 unless northeast from Sau Francisco; it is the place where tourists have the militorad for Lako Tahoo. Eight miles cast, along the river, is

is very profitable, as the location is below the snowbelt and away from the fog belt.

New Cantle
Has about 200 linhabitanis, who are mostly engaged
the fruit hasiuess. The second largest town in t Dutch Plat

Date: Plat

Has a population of about 900, inostly engaged in mining and immering. There is an abundance of water
tere which has been brought in diffuse and pipes at
great expiness. A daily stage is run from this place to
Ni vada Cily, a distance of Seventeeu miles.

The third largest town in the county, has a population of about 600. It is located at he junction of the C. P and N. C. N. G. R., acventeen miles northeast of Auburn. A daily met runs from here to Iown Hill. Between Colfax and Auburn is

Clipper Gap. Where the famous Clipper Gap leon mine is located this iron is known to be the heat in the market. At

On the Oregon division of the O. P. R. R., 29 n fles north frote Sacrumetto, are forested the extensive potential of Glaiding, McBean & Co. At this place is also a coal wince, which yields very fair coal for spenice-quies and other nees. Seven indice further north, on the some road, is the village of Sheridan, located in a forming region.

the some road, is the viriage of Sheridan, located informing region.

Roseville,

The junction of the railroad, eighteen niles northead
of Sacramento, has a population of 360. There is a
number of other towns in the constry, viz. Ophir, Alio,
Bline Conyon, Engireant Gop., Gold Run, Forest Hill,
Bline Conyon, Engireant Gop., Gold Run, Forest Hill,
Bline Conyon, Engireant Gop. Gold Run, Forest Hill,
Bline Conyon, Engireant Gop.
Bline Conyon, Engireant Gop.
College of the Congression of the Congression of the
consist of 1880 gave Placer county opopulation of 14,
congression of the Congression of the Congression of the
congression of the Congression of

## PLUMAS COUNTY

Lies p among the mountains, lu the northeastern part

## THE VOSEMITE FALLS.

The largest shipping point, for its alze, in the Slate, Fully 10,600,000 feet of lumber are shipped annually, and alse 10,000 tons of 1ce by the Boca Ice Company. Here, is the celebrated Boca Beer Company.

Here, is the celebrated Boca Beer Company,

North Sanr Junn

Has a population of about 800. It is librateen miles
morthwest from Nevade Oity, in the center of the gravel-mining district. The other towns in the county
are North Bloomfiell, Cherokee, French Corral, and
Colimbia Rill, all little mining camps, located north
of Nevade Oity.

The cenaus of 1880 gave Nevada county a population
7 20,827, which would reach about 21,600 at this date,

## PLACER COUNTY

PLACER COUNTY

la located on the western side of the great Sierra range of mountains, northeast from Sacamento, and 176 miles northeast from Sacamento, and 176 miles northeast from San Francisco. In shape this county in nearly a parallelogram, being over 300 miles in length, from northeast to a southwestern direction, and in the topographical features the whole of its territory faces towards the activity sin, extending from an altitude on the plains, in the western portion of the county, of some 40 feet lo over 7,00% feet at its castern housedary line, embracing nearly every variety of climate in the State. Its area is 045,00% sercs.

The mineral resources are extensive and quark, any pleded up in the millions. Large assume of capital have been expended in getting the water, in pipes and ditches, from the moentains, and the number of miles of ditches is several thousand. The quarrying and dressing of grantic la an important item of the wealth of Piner county, there being no hier grantic line to have world than the quarries of Penryn and Rocklin.

## Auburn,

The county seat, one of the oldest towns in Northern California, has a population of 1,500. The town is located meanly one fide west from Aburn station, on the C. P. R. fl., 187 miles northeast from San Fraicelesco. The elevation here is 1,878 feet above the sea level. The greater portinue of the laad in this vicinity is gold-hearing mineral, but, whose water case he had, fruit culture the control of the most properous agri-

of the State. It has an area of 1,700,000 acrea. The secuery is wild and picturesque; anow covers the summit of the meuntains, and their slopes are clothed in magnificate forces of princ, for ond oast student. This commendation of the meuntains, and their slopes are clothed in magnificate forces of princ, for ond oast student. This pal ones are Big Measlows, wounted oast student. This pal ones are Big Measlows, wounted meadows, Indian, Genesce, American, Beckworlt and Meadow valleys. The first unued is some filteen miles long by four wide, and is the largest; it lies atjacent to Mountain Meadows, another of nearly the same size, and soveral other valleys, the whole constituting quite an elevated plateau, 4,500 feet above sea level. Indian valley, an imporlant and prosperous district, a eleven miles in length, and two imples wide. American valley is nearly the same size, and bourpoon of the state, with living streams running through all of the valleys. A good chare of the wealth of like county is claimed to be in its mines, a great many gold claims having here taken up in the bille; extensive operations are carried on in different places, both by placer and hydraulia methods.

Plumas also has a large amount of excellent we time places, both by placer and hydraulia methods.

Plumas also has a large amount of excellent although there is but a small area of level valley land, practicable for farming, yet this limitstry is quite prosperous. In addition to grain and vegetables, this is quite an important stock-raising county, and an excellent locality for fruit, such as apples, pears, plusus and peaches. As yet there are no railroads in Plumas county, but all the principal towns are connected by stagers, which run, on gooil wagon-roads, to Groville, Butte county, on the west, and to Renn Nevals, on the east.

\*\*Quincy\*\*

cultural sections of the county, and contains 200 initial litaria. Meadow valley, with less than 10 inhalitants, Crowline creation several initios from Outury, on the Crowline county, it less at an altitude of 7,000 feet.

part of the county; it lies also salitime of 7,000 feet.

Greenville,
In the notthern part, he one of hie most thriving places
in the county; it has 800 inhabitants. There are n
number of smaller towns, or mining cames, namely,
Copperiown, Eureka Mills, Hernius, Indian Har,
Longville, Mohawk, Pratville, Springs, Indian Har,
Longville, Mohawk, Pratville, Springs, Indian Har,
Bay, Sences, Union and Wash. Phinass county, holds while population of 6,180. I thus large amounts
of fine Government agricultural and timber land, susceptible of acticinent, with the capability of Iripling
its present population.

## SACRAMENTO COUNTY

SACRAMENTO COUNTY

Is nearly quadraminiar in shape, with an area of 620,1000 acrea. Near the juntilion of the Sacramento and San Josquin relevan the rear several larke and fertilo islands, Sucrement of these behands is a rear of 620,1000 acrea. Near the juntilion of the Sacramento and San Josquin relevan the rear several larke and fertilo islands, Sucrement of these islands is a rich vegetable and the second of these islands is a rich vegetable and the second of these islands is a rich vegetable and the second of the second of the property producing large crops of gram, hay, fruit, regetable hope and grages crops of gram, hay, fruit, regetable hope and grages crops of gram, hay, fruit, regetable hope and grages crops of gram, hay, fruit, regetable hope and grages of the vegetable had been desired to the country of the control of the country of the control release of the country of the control release of the second of the film ber. Along the books of the stream, there is considerable of the country of the control release of the vegetable of the film of the country of the control release of the vegetable of the country of the countrol release of the vegetable of the vegetable of the vegetable of the vegetable of the countrol release overland the Lee Angeles; the Centrol Facility of the countrol release of the better of the vegetable of

The third town, is situated nere.

Gall,

The third town, is situated in the southern puri of the county, on the Ceutal Pactic Railroad, at the junction of Jackson and Aunador Railroad, 32 miles south of Sacramento, in a flue, level, agricultural country. The present population is 600. Seven miles north, on the same railroad, is

Eik Grove.

A town of about 350 people, located th as fine an agricultural and fruit section as there is in the Sate. Here are also extensive vinegrands of rations and wine grapes. Between the town and Sacramento city, on the railroad, agricultural country.

Michigan Bar

is an old mining town, southeast of Sacramento, and about 30 miles distant. An excellent quality of potter's clay is found here. Dairying and farming are its main supports.

## Walnut Grove

Walnut Grove
Is attnated in the midst of a fine fruit growing section. On the southern end of the Audris island is the village of laidon. No richer soil can be found than this talked possesses. The other lowes in the county are Cosmises, Franklin, Hixville, Richland, Router and Walsh. The population of Sacramento county now amount to no less than 36,000. At the delta of the Sacramento river, in this county, are Satter, Grand, Tyler, Andrun Dirannon, Sherman, Twitchell and tannial islands—all of broad area—which are helug reclaimed as fast as possible.

## SAN BENITO COUNTY

Has an area of 658,560 acres, and contains a population of 6,500. The county is watered by the ban Bentto and Tres Pinos rivers and tributarea. These rivers run in a borthwestern direction across the entire county. The tumber is principally live, black and while oak, and some pine, in the mountainous portions, sufficient for finel, but no saw timber. There is, first, shout 25,000 acres of black adobe and sandy loam in lie valley along the streams, which will produce an abundance of vegetation. Second, about 34,000 acres of first-class grain land, that is known as San Benito valley, in reality the extreme southern portion of Santa Clara vailey. The soil is a black adobe and loam, with a blue sandy subsoil, and holds molsture well. It is principally on this land that the large amount of wheat, shipped annually from this county, is raised. Third, shout 46,000 acres of what is to time second-class grain land, most of whitch is situated in the fothills, and is composed abunt equally of adobe and sandy soll; on this land most of the hay crops are raised. There are numerous small valleys running in every direction in the upper foothills, capable of producing hay, amounting to about 100,000 acres. There is very little mountain land but what is autiable for grazing. Quicksilver alcundain the mountains; on the east side of the county there are ten to twelve locations which have been prospected with good indicalians. Chrome ore is also abundant in the viouity. Artesian well water is obtained through the valley in the north and reastern part of the county; in the vicinity of San Felipe there are a number of flowing wells, at Hollsior the water rises nearly to the surface by ing 110 feet.

### Hollinger

Haa a populating of 1,800, and has a splendld sya-tem of water works, supplied from three artesian wells.

### San Juan

Is one of the old hind marks of Oshfornia. One of the old missions, 106 years old, is still well preserved and used for Catholic service. The town contains 530 lahabitatts, and is the scoond largest town in

the county.

Tres Pinus

Contains 150 inhabitants, and is the shipping point of a large amount of grain and hay for the southern portion of the county.

## Son Fellips,

Located in the northeastern part of the county, near the line between the and Santa Gruz county, is noted for the large amount of tobacco raised.

San Beinto is capable of supporting six times the present population. It has a good climate and rich soil.

### SAN BERNARDING COUNTY,

SAN IBRNARDING COUNTY,

The largest in the State, conlaius au area of 15,022,000 aeres of surface, larger in extent then several of line Now England States, together. Fully 13,720,000 aeres of this wast cuntity is a barren desert and mointain waste, or mineral lands. According to the heal information we could get, there are abent 200,000 aeres if the rearrangement of the country of the country of the country which is culled San Bernirdino valley. The mointains surrounding the telegraph of the country which is culled San Bernirdino valley. The mointains surrounding the valley are filled with unagnificent forests of prue, codar, and other timber. In resources this country can boast of as grest a variety seit can of chemate and physical features. The numerous sud rich mate and physical features are the surrounding discoveries which have been made during the past two years, are already attracting considerable attention abroad. No less than eighteen different portions of this vast territory, the principal ones of which are known as the Little creek piscers, Bear valley mines, Lono valley mines, Black Hawk mines, Ery lake district, New York, Alvord, Ivaupuh, Mohave, Oro Grande, Orapevine, Calico monutain, Ord, Bladen, Punccarte, San Antono, Silverado. All of these districts are known to have good paying mi ex. These mines offer great inducements to capital, which is bound to find its way here, and the returns from the developments will bring in a fine revenue from this part of the State. From the agricultural portion of the county the staple product is harley, a winter crop, and, in ordinary good seasons, it yields heavily. Alfalla, which is the principal lay crop, is on iron five to seven times annually, yielding, at each cutting, about two tons. Vegetables of all kinds attain an enormous growth, as do all other agricultural portion of the county to be enirely to semi-

from this county to the Esst and Europe.

Son Bermirlino,
The county scal, and the principal town, bas some 3,500 inhabitants. It is thickly studded with trees, as is indeed the whole valley, which, with the bright green of the gardens and surrounding fields, give it more the appearance of a New England village than a California town.

One of the great advantages enjoyed by Ban Bernardino is its abundance of water. Almost surrounding his its abundance of water, almost surrounded by mountains, numerous streams pour into it from all directions, while artesian water can be obtained almost anywhere in the valley, by sinking from 30 to 300 feet. There are now over 500 flowing wella in the valley, affording pure water for the household, as well as for irrigition. Owing to this abundance of water, the farmers have less dread of a dry season than is experienced in other parts of the south, while a failure of crops is a thing wholly unknown.

Riversitie.

Although quile youthful, is a thriving sottlement.

Riveratic,
Although quile youthful, is a thriving settlement. It is almost entirely settled by Esstern people, many of whom bave located here for their leasth; some for the pleasures of this mild climate, and come for the purpose of raising semi-tropical fruit, to which the entire section is devoted. The settlement of liverside is a colony, and is shout twelve miles in length, by about four wide. The people depend wholly on irrigation. The enlony has the water right of the Santa Ana river, which beads up in the mountains northeast from San Bernardino, and also the water furnished by some 450 artesism wells, from San Bernardino valley is allowed to flow on to Riverside. The river is taken out of its course, and distributed, through hundreds of small canals and ditches, for the purpose of irrigating the immeuse orange orchards in the place. This is certainly one of the bandsomest places in Odlifornia.

## Lugania

Lugarita
Is the name applied to that portion of San Bernardino county lying between Old San Bernardino and Crofton. The village is delightfully located. The fruits of the citrus annily—the peach, apricot, and grape—are principally grown, and are, with the olive, the most profitable.

## SAN DIEGO COUNTY

NAN DIEGO COUNTY

Borders on the Mexican territory of Lower California. It is the second largest contry in the State, having an area of 9.580,600 aores. The surface of this county is known as mess lands. The most important topographical feature of the county is the bay of San Diego, one of the few material harhors of this const. It is a fine about of water, twenty miles long by three wide, is almost land locked, and has a sate entrance and a good anchorage for the largest seasyoning vessels. The Southern Pacific Trans-continents! Railroad passes through San Diego county, from the northwest border to the somitivest currier, for a distance of 165 miles. The California Bouthern has recently been built, from California for the S. P., south to San Diego City, a distance of 126 miles. The Pacific Coast steamers

make regular trips between San Francisco and San Drego, every five days. The Colorsdo river, along the eastern borders of the county, is navigable for ateaners. These combined give San Diego county the less of shipping facilities, both by rall sud and water. San Diego is the oldest settled county in the State. The hay was first visited by white men under Csbrillo, in 1542, only 60 years after the discovery of America.

In the fertile portion of the county, or in the two sections west of the desert region, are more than 30 valleys, from two to fitteen miles long, and embracing from a few hundred to 20,000 acres; several of those valleys are very fertile, with a dark alluval soll, while the rolling lands are of a reddulb nature, underlaid with a clay subsoit. These lands, up to a few years ago, were considered valueless; but it mis bern proved that by proper cultivation they are quite productive. Irrigation is, at present, in advance of railroading or say other interests. The larm products are wheat, barley, wool, honey, and semi-tropical fruits. Oranges, lemons, limes, olives, peaches, almonds and English walnuts all do remarkably well.

remarkably well.

San Diego City.

Is beentifully situated on the shore of the bay of lilo same usme, with a population of 3,000. Its saluhrious climste, which is very nild, and certainly the most equable in the world, has made San Diego a noted sanitarium.

Notional City.

Notional City,

Some four miles south from San Diego, is a place
of several bundred infabitants. The shops of the
rallroad of which it is the terminus are located
here. Banner, a new town, about 50 miles northeast from San Diego, is situated in the San Felipe
canyou. Grain, fruits and vegetables of all kinds
grow in the neighborhood. Oold mining has been
carried on here to some extent since 1874. Julian,
allittle mining town, is 45 miles northeast of San
Diego, among thickly-wooded hills, in a grazing
and agricultural country.

Full Yung.

The extreme lown of the State, is 196 miles east of

\$30,000 to \$50,000 have been built in different portions of our city.

\*\*Munnfactures\*\*

\*\*Munnfactures\*\*

There are some \$50 different manufacturing establishments in this city, 297 of which are incorporated companies, and altogether cupley 40,000 mechanics, making a total yearly mesunfactured product of near \$57,000,000; there will be largely increased the coning year. The manusoils signared are nad twelve story brick—at a cost, including machinery, of \$1.200,000, will turn out, when in full operation, 600 tons of sugar pri day. There are \$2 iron and twelve brass toundries in the city; one rolling mill, giving employment to \$50 men and boys; one wher cope factory, employing some 60 hands; litree glass works, lwo of which were established in 1881, furnishing employment for 250 men and buys, who are principally engaged intention to slart and ha factory this year; one vindew glass has as yet been made, but it a the intention to slart and ha factory this year; one rene-walk, furnishing employment to 50 men and 120 boys; ten flour and six feel mills are constantly employed, intribishing flour and teed, which is alragely exported to for ign countries; 50 tanneries are represented in this city; some of these, however, are located in different parts of the State, and have their beadquarters here. We also bave 34 breweries in this city; the Boca, located in the Sierra Nevada mountains, has its headquarters here, and the Fredericksburg, of 8 an Jose, has also an agency. There is an unusually large amount of beer manufactured in 8an Francisco. A number of our largest browers are incressing their capacity. There are three distilleries in the State, two of which are in this city. The manufacture of cigars and tobacco has largely increased during the past year. There are about 500 white men, 200 white females, and 4,500 Chinese employed in the manufacture of olders. About 700 hout and shoe cetablishments are in the city, employing \$50 men and boys; besides a number of smaller establishments of this character, there are a l

\$30,000 to \$50,000 have been built in different por-tions of our city,

Munufactures.

Fort Yuma.

BRIDAL VEIL FALLS.

San Dicgo. The fort was established in 1849, when the territory across the Colorado river belonged to Mexico. The post is on the right bank of the river, 180 miles from its mouth, and directly opposite the number of the Glat. This is considered the hottest place on the Cosat, as there are, on an average, 350 clear days in the year. There are a number of smaller towns and precincts in the county. The population in 1880, of this vast scape of country was 8,618, but will number fully 12,000 at present.

## SAN FRANCISCO COUNTY.

SAN FRANCISCO COUNTY.

In May, 1850, the City of San Francisco first entered upon its forms! and legally recognized existence as an independent multipitality. The County of San Francisco had been duly organized the month preceeding. For upwards of 60 years the two distinct governments contemporaneously maintained independent administrations with the same geographical limits. On the first of July, 1856, the Consolidation Act, uniting the two, under the name and title in The Ohy and County of San Francisco." was passed. Although but 27 years have clapsed since the accomplishment of this consultation, reckoning from its independent birthday of May, 1850, 34 years last May of the present year, will be the exact age of the city. The total land aros of the city and county is 20,681 seres, by first the smallest county in the Slata, its average hreadth from ocean to bey being four and one-half, by six and one-half intles in length. The poninsuls on which the city is incated is about 30 mtes long by direct which, the city and county occupying the western end. There are 1,697 strotes, avenues, and alleys, which appear on the map of the city, and 27,550 buildings, about 5,600 nf which are hirek; the balance is of wood. There are 92 church organizations, all of which are birds, business blocks have been added, all of which are birds business blocks have been added, all of which ern style houses, coating from \$2,000 to \$10,000. Several very elegant residences, costing from

door, and blind factories, soap works, agricultural works, mirror works, glue factories, type foundries, trunk factories, terra culta works, slucco works, furnite factories, hurness and sadille factories, fruit cameries, oil works, marble works, oracker bakeries, glov tactories, etc. It is impossible to give a detailed description of the metroposible to give a detailed description of the metroposible to make this, but a fine bird's eye view, are obliged to make this, but a fine bird's eye view, with its hundreds of ships and steamers, from all purts of the world, lying at medior, will give our Eastern and European readers a fair idea of Sau Francisco.

## SAN JOAQUIN COUNTY

Iss an area of 328,000 acres, 876,287 acres of this is owned and assessed, thus leaving only 51,813 acres for wiste land, which is river-bed and some broken land in the northeastern and southwestern portion of the county. It is watered by the San Joaquin river, which passes through it from south to north, apreading into three channels a few interesting the northeast shows Stockion, and taking in its embrace two of the largest selands in the Sutic. No streams of any importance enter it from the west, but on the easterly side, within the Huits of the county, the Mokelumne and the Stanishus rivers Join the San Joaquin, with a flood auffilent, in certain seasons, is render them travigable for a considerable that tance, and furnish a supply of water adequate the irrigation of the hands lying between them, embracing the riotest section in the county. The soil of the river buttoms is a rich sandy loant, well adapted to the grawth of sweet potatoes, hops, corn, jeanuts, flax, heup, jute, rame, chleery, inclone, small fruits, vegetables and all minimer of rost cops, profineling succinconsty. The county occupies a most favorable and important position, on seconnt of its accessibility to the markets of the world, its inavigable streams, its excellent railroad fulfilles; its brigo area of tithilds soil, of the most profinctive character. While grain-growing predomining over all others, stack-rishing forms in linearing of the earthe are carried

on to some extent, while sheep husbandry is quite an important ludustry.

### Stockton.

Stockton.

The county seat of San Josquin camily, is located at the head of the Stuckton channel, on the line of the O. P. R. R., 91 miles from San Francisco by ratl, and 117 miles by water. This channel is a wide and livep arm of the Sacramento river, which is navigable for vessels of 600 tons capacity. The city extends over an area of four square miles. The character of its hulldings are generally very substantial and good, the business portion being built almost entirely of brick. A system of street railroads affords essay accommodation between varians parts of the city. Stockton is cenceded to be the most important grain market of the Pacific Coast, outside of San Francisco. The deep, navigable channel, radiating from the river into different points in the city, give a convenient water from of many miles in extent, such as is not possessed elsewhere in the State. Substantia of possessed elsewhere in the State Substantia of possessed elsewhere in the State. Substantia of possessed elsewhere in the State Substantia of possessed elsewhere in the State. Substantia of possessed elsewhere in the State Substantia of possessed elsewhere in the State. Substantia of possessed elsewhere in the State Substantia of possessed elsewhere in the State. Substantia of possessed elsewhere in the State Substantia of possessed elsewhere in the State. Substantia of possessed elsewhere in the State Substantia of the St

Has apring into existence since the construction of the C. P. R. R., and is now a beautiful village of 1,000 finhalisms. It is located in one of the finest agricultural and fruit sections in the State. Two and one-half miles northwest from Lodi is

Wondbridge,
Beautifully situated on lite hanks of the Mokelumne river, at the lead of navigation, fonricen miles
from Stockton. Eight miles northeast from Lodi is

Luckfurd,
In the center of a flue farming community, and contains a population of 450.

In the center of Contains a population of 450.

Linten,

Twelve miles east of Stocklon, is anrrounded by the neltest farming lands in the comity. This section is heauthled by scattered oak treea, giving the landscape a fine appearance. The town contains about 150 thiabitants, and the surrounding continuity is considered the finest wheat-producing section in the county. Sixteeu miles from Stockton, on the line of the Stockton and Copperopolis Railroad, is the village of

Farinington,

Corrounded by a rich farming country. The farm-

Surrounded by a rich farming country. The farmers in the vicinity are nearly all engaged in raising wheat. The town contains about 200 people. Ten miles south from Slocklou is

The Innotion of the Coural and Southern Pacific railroads; it contains a splendid hotel. About fiften miles southeast of Labrop is

Tracy.

With 100 people. The other towns in the county are: New Hope, 50 Intabiliants, Freuch Gamp, 75; Atlanta, 50; Acampo, 75 to 150; Bantas, 50; Belinta, 50; Collegeville, 50; Elhott, 50; Peters, 40.

## SAN LUIS OBISPO COUNTY

SAN LUIS OBISPO COUNTY

Contains 2.022,400 acres, 481,337 of which are covered by Mexican grant titles, and 1,641,162 acres are United States Government titles. It is well watered on the west side of the range of mountains by numerous small living stream that tead up in the mountains, and by springs which find their way west to the ocean. The Salinas and San Jaan rivers, with their numerous branches, head in the southcastern portion of the county, running in a northern direction into Monterey county. The soil in the valleys on the west side of the range of mountains, is extremely fertile, being generally of a black adobe and losin usture, the latter predominating. The valley lands are well adapted to raising generally and hilly portions of these laids are nearly the same soil, only not so rich, and are better adapted to darrying. On the east side of the range of mountains the soil is more of a gravelly nature. The ratiofall here is hight and the chimae warm. The soil is well adapted to raising grato, fruit and grapes. At present large bands of silvey are kept upon it. About one-fourth of San Luis Obispo onnity may be considered as mineral lauds. Ohrome iron ore and quicksilver are found in many places, in paying quainties.

Sinc Luis Obispo and Santa Maria valley fairond with Port Hauford, the shipping point for the town. The city is matted between the inlis in the San Luis oreok; It is an old Spanish settlement, and was first settled in 1772, when the old Massian church was established. Up to the 1872-3 it remained a town of a few adobe buildings, with mily a few hundred inhabitants, when the American settlers cannot na full mill up the town; at precent the activity is a few hundred inhabitants. The San Luis Obispo and Santa Maria valley but the city to

Acres of Office of the two years, and now bas several bundred inhabitants. Luid at nine sgricultural section.

Curneas

Cityticas

Has apring up within the last two years, and now has several bundred inhabitants. Land in the vicinty is considered the heat dairy hand in the State. It is principally settled by Swiss fairgrain. The village of Murro is stunied a few unles south on the cosst. Here is a nutural harhor, on Morro bay, where a winst has been built. In the vicinity the land is sandy, and it is better adapted to farming than dairying.

Crossbett

has 350 (indulibants, nood school, five stores, and

Crimbeto

has 350 indibiliants, a good school, five steres, and
two carrings and wagon shops. Its chief support is
the dairy interest. Several rich quicksilver infines
are in the vicinity, but are not worked, at presult,
on account of the low price of the metal. One bundred miles distant, is

## Sen Shuron

The finest landing south of Son Francisco. It pos-sessoan good wharf and warehouses, and the Pacific Coast steamers osil twice a week. The Coverument

has erected a lighthouse. The town is small, and the land for miths around is all owned by one man. The Pase Roddes hot and cold sulphur springs are 28 miles from San Lais Ghispo by stage. These springs are famous throughout the United States, and are cished by tournists and those seeking health from all parts of the world.

The other towns in the country are Cholame, Josephine, La Panza, Musick, Pozo, and San Mignel, which are all quite small. In 1880 the population of this country was 9,142, but the rational has been extended, and many of the large "randbox" are being sub-divided, and settlers are taking advantage of these cheap, productive lands, so that the present population is Inily 10,000.

san Matteo County.

San Matteo County.

The Gabilan Sierra Moreno, or Santa Cruz monsins, traverse the entire length, and accupy nearly one-half of its surface; yet, fully une-half of San Mateo county is susceptible of cultivation. On the sat, or bay sale of the county, is one of the finest little valleys in the State. On the ocean side there are also from 17,000 to 20,000 sores of level land. Besides these, there are several other valleys, such as Canada Raymondo, Upper, San Gregario, Pomponia, and others of lesser uote. This county is only about five nitles wide at its north end, and some eighteen at its southers cand, with a length of 2millon. San Mateo is exceedingly well whered by nuncrous small streams and springs. As is well known, San Fancisco draws her water supply form San Mateo. The Spring Valley Water Conpany has large reservoirs and sorks along the cuttre length of the inountains. On the ocean side the fogs roll in from the Pacific, and keep vegetation green the greater part of the year. This county has very variety of soil, the most of which is very fertile. The productions are barley, hay, oats, wheat, polatoes, cabbage, and all root crops. Shipping facilities are excellent, During the list twenty ty years, the successful husiness men of San Francisco have built beautiful country readences along the line of the railroad for nearly its entire length, extending to San Jose, a distance of fifty miles. Small towns are scattered throughout the county.

The county seat, is most heautifully situated along

Redwood City,
The county seat, is most heautifully situated along
tho bay, on the east side, with both water and rail
road communication. It is only 29 miles sonth of
San Francisco, and has about 1,500 inhabitants.
In its vicinity are some of the finest country residences in California.

### Spaulsklowa

The second largest town, is situated on the coast, on Half Moon Bay, in a fine agricultural country; it centains about 1,000 inkabitants. San Mateo, Menlo Park and Belmont are really suburbs of San Francisco, as they contain many of betweatherst critizens.

Is a fine summer resort, and is surrounded by an excellent agricultural country. The other towns are Searsville, Milbrac, Wnodelde, Hands, Puissima, and San Gregario. The podulation of this country, in 1680, was 7 074; but, at the present writit would amount to fully 9,000.

### SANTA BARBARA COUNTY

SANTA BARBARA COUNTY

Lies between San Lnis Obispo on the north, Venlura on the east, Santa Barbara channel on the south, and the Pacific ocean on the west. The islands in the Pacific, some 20 or 30 miles out, belong to this county. Below Point Cenception the foot the county. Below Point Cenception the coust line bends sharply to the eastward and parallel with this line is the Santa Ynez range of mounting, from 3,000 to 4,000 feet in beight, traveraing the county, Irom east to west. Beyond the range, rusuing in a northwealerly direction, lie the San Rafael mountains. A large portion of the north-eastern part of the county is a ranged, mountainous region, containing a few amail valleys which are fertile, but the balance is a rocky, harren waste. Between the Santa Ynez mountains and the bay lies the celebrated Santa Barbara valley. This valley is unparalleled in the world for its healthy, equable chimate, the islands in the ocean breaking the chimate, the islands in the ocean hreaking the winds. The most deileate fluwers hoom every day in the year, and invalids come here from all parts of the world, and many of them permanently sottle here. The soil of this valley is of a dark, sandy loam. The shortest way of reaching

Santa Harbara

Is by the way of the Guast eteamers, a distance of 500 miles aoutheast. The town lies within a space of three miles agaare, gradually rinting from the sea to an elevation of 300 feet. The city, at preach, has 5,000 inhibationts. In the gardeus of Santa Barbara may be seen the point from India and other delicate plants from China, Australia, Africa and South America. Trojeal jasmines, the cedars of Lebinon, the Egyptian paper plant, the honey tree of sonth Africa, he campbor tree of Japan—in lact, one can see a greater variety of choice and are plants, trees, and flowers at Santa Barbara lina in any other spot in America in the open air.

El Montectlo

## El Montecito

Contains many handsome residences, and is, properly speaking, a suburb of Santa Berbara. This valley ties close to the toothills, and op us to the southwas into the sa. The larms are mostly small, and inder a high atthe of cultivation. The bansus, a native of the wouth sea islands, may be seen growing here, and, in some places, in this vicinity, the land is beavily timbered. Water is abundant bronghout the valley. A large portion of the county is well adapted to farming.

## Lourpec

Loupoc

Is in the northwesters portion of the county, where, a few years ago, no sign of a habitation could be seen for miles, except, occasionally, a horder's camp. Now, beantful farms, fields of grain, cottages and school toomes great the eye on every hatel. Lompoc has about 500 inhabitants, and it will, ere long, be a railroad town, as the S. L. O & S. M. road it to extended from Arrayo Grande, which is new completed from Port Harford, a distance of \$9\$ miles.

Gualdage is situated in a fine agreement a country, and bas about 400 inhabitants. Central City, a small village some ten miles cast of foundalings, kas a pleasast climats, and the sarrounding scenery is very attractive. Los Alamos is a small settlement on the ranche of the same name. The Los Alamos valley, which is of extraordiumry fertility, is mosty rented in small tracts to farmers.

Carpinterla

Is in one of the most tertile valleys in California, which is mostly devoted to the onlittre of the Linas bean. A new industry has just been inaugurated

here, viz: the cultivation of flowers for distillation, such as roses, violets, jasmines, orange flowers, etc. The village in the valley, of the same name, has several bundred imbolitoits.

Gueta is a small village, eight miles northwest of Saina Barbara, and claims 200 inhabitants. The population of Sana Barbars county in 1890 was 9,599, which has increased, within the past two years to about 10,000.

### SANTA CLARA CDUNTY.

SANTA CLARA CDUNTY.

This is one of the most prominent counties in all Cathornia in agriculture, horticulture, climate, and beauty of scenery. It has close connection with San Francisco by three lines of railroad, also water communication via the southern arm of San Francisco by.

The topographical features of the county are the two ranges of monotains on either side, with the large valley of Santa Chira between, a level, fortile plan, running down from the northwest to the southesst the entire length of the county; it is about 54 miles in length and from 12 to 18 miles wide. The county bas an area of 523,728 acres.

But few counties lave better water facilities than Santa Chara. The most interesting feature of the valley is the flowing wells. Artesian water is obtained in the country around the bread of the bay, and extending southward to, and including the city of San Jose, in fact to the extreme southern purion of the country. In the vicunity of San Felipa large thowing wolls are easily obtained, varying in the different localities from 50 to 350 leet. No better soil is found in the State thau Santa Chara valley possesses. It varies, in some pisces, being a rich adohe, many feet in depth, in others a black sandy loam, and in others of a realdest gravelly oam with clay mixed with decomposed rock. This latter is regarded as the natural soil for the grape, the choicest and tendercet varieties of which grow here to perfection. On the hill-sides the soil is mostly of a gravelly and clay nature, making the best of orchard and vineyard land, where the elicities from 50 to 350 feet. The latter is regarded as the natural soil for the grape, the choicest and tendercet varieties of which grow here to perfection. On the hill-sides the soil is mostly of a gravelly and clay nature, making the best of orchard and wineyard land, where the left of the Santa Clara valley.

San Juse

San Juse

is the county seat, with a population of 16,000. It

emptying into Monterey hay near the city of Santa

emptying into Monterey hay near the city of Santa Cruz.

Pajaro valley, one of the most charming and productive valleys in all California, is in the southeastern portion of the county. It is about fifteen miles long and from six to ten miles wide. The soil is of the richest garden land, secentiagly increases in the rather spatial to the sea, with a railroad running through it, and it is made up of beautiful fields, the orchards, deep alluvial bottom lands and fartile inlinedes, winding streams fringed with trees, and here and thete several heautiful liskelets, a range of wood-covered mountains fringed with trees, and here and thete several heautiful liskelets, a range of wood-covered mountains, on the northeast, the dancing surf of Monterey bay on the southwest. Northward, near the mountains, is Corraletos valley, running in an opposite direction, a beautiful stream by the same bame thowing through it. Further up is Green valley, which extends the entire length of the enumy, affording good lacifities for building roads up the cauyons, making the redwoods ancessable for himbering. The councy is well supplied with railroads and shipping facilities for building reads up the cauyons, making the redwoods ancessable for himbering. The councy is well supplied with railroads and shipping facilities from Sun Francisco to Santa Oruz (distance, 80 miles) through the most romaints scenery un the coust. The Paosite Ooast Steamship Co. Issue a regular established rous here; besides there are numerous other vessels constantly visiting the port for lumber, him, feather, powder, grains and dairy products. The town is well huilt. The business innuses are on the principal street, and are mostly bailt of hrick.

Fellon

Is quite a lumbering and limp producing place.

### Fellon

Is quite a lumbering and time producing place. There is a V finme extending fourteen units up into the redwood forests, where several saw mills are located manufacturing lumber and shingles, which are floated down the thume to the railroad, and shipped on the cars to San Francesco. The Sauta Cruz Big Tree grove is but one and one-half miles from here.

## Suggest

Suggert
Is located in a rich agricultural conntry. A paper
mill, saw mill and tunnery are located here. The
place has many attractions, and contains 200 people.

Aplos

Lies between Soquel and Watsonville, eight miles east of Santa Cruz. Mr. Claus Spreckels owns a



## MIRROR LAKE.

ranke first In architectural beauty, location, general nestness and educational advantages of any city in the State. It has a system of street railroads through different portions of the city, two competing hues to the lown of Santa Clara, a distance of three milea; one out to the Willows, where may he seen the finest erchards in the State. San Jose has an abandant water supply. Lies Gatos creek is brought in pipes from the Santa Craz mountains, besides the numerous ariesian wella throughout the city.

Santa Clara

Is a beautiful town of 2,500 inhabitants, only three miles from San Jose, and is connected by two lices of steam and two lines of horse railroads. This is quite a manufacturing town.

Los Gates

Los Galus
Is 303 feet feet above sea level, and has a population
of 750.

Is situated at the head of navigation on the Bay of San Francisco and on the line of the S. P. C. R. R., and at one time, before the railroads were built, was quite an important point. It has some of Banta Chara's largest brick warehouses, a buring mills one store; a line of daily steamers from here to Ban Francisco.

Agnow's Stathma
Is on the S. P. C. R. R., between San Jose and Alviso, in a fine truit and farming constry.

Gitteny

Alviso, in a fine fruit smill farming country.

Gittery

Centains a population of 1,600, and is a fine agricultural country in the Santan Clars valley. There are several other small towns in this county, Milpitas, on the S. P. R. R., 42 angles from San Francisco, and Maytheld, a nice little lower, and y5 miles from San Francisco. Santa Clara county contained 35,007 thinkintants in 1890, which would number 38,000 at the present time.

Is one of the smaller councies of the State, embracing 276,400 acres, about one-third or which is fertile valley, plateau and rolling hill land, and fally 10,000 acres of rioh bettom land. The county is about 36 miles long from a northeasterly to a sonthwosterly direction, and nearly fiftee miles wide. The county is exceedingly well walcred, first by San Lorenzo rivor and its numerous branches, heading up in the northern portion of the county, running in a southern direction and

large estate tere, and has erected a magnificent lotel for the secommodation of summer travel. The location is a very desirable and pictoresque one. The horits is and so n high ground overlooking Monterey bay, and is fronted by lawn and beautiful flower beds; pretty cotages, for families, are tastefully grouped in the grounds; every inducement, in the way of amusement, is offered here. The county contained 12,801 inhabitants, two and one-half years ago, which has increased to fully 15,000.

## SHASTA COUNTY

Has an area of 2.410,000 acres, and the Coast Rango and Sterra Nevada mountains meet within ker borders. The consequence is an immense unmber of canyons, gorges, valleys and ravines, through which like upper Sacramento (or Pitt) and McCloud rivers rush, forming a junction with the Sacramea, owhich takes its rise in a large spring at the base of Mount Shasia, in Suskiyon, about 90 miles above this junction. Shasia has large forcets of valueble sugar and yellow pino sax timber, besides the oak and other timber in the valleys, valuable for fuel only. In the southern end of the county, at the head of the 16 Sacramento valley, are the principal agreed that the same state of the county of the county of the same states, and the same for cattle and shrep. Brsides these there is a largo number of small valleys, ranging from a few acres to saveral hundred. Shasta's great wealth in her mineral resources, which are searcely yet no secret work on a large scale; but, to these her stances, mastras are used profitably. It some places these princitive machines turn out from \$1,000 to \$1,500 per week. A namber of small towas throughout the county are stated.

The county seat and largest town, is seven miles from Redding, and has a population of about 1,200. It is quite a protty little mountain town, on the line of slage routes to Weaverville and Yreks. The United States land office, far upper and central Oslifornia, is located here. There are yet large bodies of Government land in the district soliable to fruit culture, which will soon be occupied, as the railroad is being built,

## Reibling,

The present northern terminus of the O. D. of the C. P. R. R., is a growing town. It is, the largest town in the county, and contains 1,500 inhabitacts, Fright teams from Yrcka, Scott's valley, Jisy, Copper City, Weaverville, Mount Shasta and all directions contralize here for the distribution of supplies and merchandise.

## Auderson

Is a heartiful little village on the railroad, twelve miles south of Redding, in a line sgricultural country. It has a population of 250. Five miles south, lu the same valley, and also on the railroad, in Cattouwout,

In the extreme eastern portion of the county, Large amounts of wools, sleep and cattle are stupped from here to Sacramento and the hay. Whiteytown

Wiskeytowa

Is a mining town, five nucles north from Skasta, in the western part of the county. There is a number at good paying gold quartz and placer omies in the vicinity. The place contains about 150 inhabitants, principally miners.

French Galch,

Fifteen miles north from Shasta, is one of the oldest mining lowns in Northern California. The famous Deallecool mines are in this vicinity. The place has about 200 people. The principal agricultural town in the county east of Sacramento river, is

Millettle

Containing 400 inhabitants. The place lies twelver miles east of Anderson, and has a good mountain trade.

## Copper City

Copper CHy

Lies in the central portion of the county, surrounded by some of the best paying mines in the northern part of the State. South and west from here is a number of smaller towns, viz.; Centerville, Horsotown, Peter Hill, Jonesville and Igo, the last of which is the most important. On the esst side of the Bacramente river is a number of small towns, all supported by the mining interests in their immediate vicinity, they are: Furnaceville, Buckley, Churchtown, Burgettville, Parkville and Dugereek. About 100 miles cast from Shasta is Fall rices, a lively agricultural town of 250 people. Lower Soda springs is situated some 60 miles north of Redding. Tho waters of these springs have mideltal qualities, which are bringing them into notice. Castle lake, near Castle rucks, is one of the most picturesque scenes in Californa. The Clover creek falls are 50 feet high, and are considered quite romantic. To the tenrist the natis-exercy is grand and sublime, and second only to Yosemite. Moint Shasta's stupeudons beauty tass inspired the minds of painters and pools with its grandeur, such as no scenery on the coast has ever done before. It is visible from all northern Celifornia, towenog with its perjectal snow-covered peaks, 14,400 feet above sea level, and is just across the line in Suskiyon, Shasta is but sparsely settled to what it will soon be. At present the population is about 10,000.

### SIERRA CDUNTY

Is the most elevated county in Califoroia, the lowest point within its limits being over 2,000 feet above the sea level. It derives its name from the Sicras, which cross the county from north to south embracing the whole of its lerritory. It has an area of 531,200 acres, extending east and west some 60 miles, and 30 miles from north to south. Some 60 miles, and 30 miles from north to south. Some 60 miles, and 30 miles from north to south. Some 60 miles, and 30 miles from north to south. Some 60 miles, and 30 miles from north to south. Some 60 miles, and 30 miles from north to south. Some 60 miles, and 30 miles from north to south. Some 60 miles, and 30 miles from north to south. Some each level. Table rock, Sadle rock, Mount Filmore and Fir Cap all reach 6,500, and Sierra Battless te nearly 9,000 feet. Thus is one of the landmarks of the State, and from 1s some of the landmarks of the State, and from 1s some of the landmarks of the streen the black imbered rsuges intervening between the black imbered rsuges intervening to the orth and sonth, are seen the great gorges of the north and sonth branches if the Yuha river. This beautifel romanne seedery and deligible first for easier are freely equaled in any part of the country. It is enriched with magnificent coniterous forests of red spine, with an estimate of over 200,700,000 leet of saw unmber in the county. Mining, in its various branches, is the clair industry. The extensive gravet mines found here have been worked since the discovery of gold in California. Crossing Sierra with an actimate of the country at an altitude of 5,000 feet. The valad coultry, at an altitude of 5,000 feet. The valley coultans about 15,000 acres of good pajing gravel mines.

Downley the.

Downley III.

The county seat, was settled in 1849, and is situated on both sides of the Yaba river. The town hea in a deep canyon, enclosed on all sides by monatams fully 2,000 feet high. It was once the busy center of the richest gravel region in California. The streams are spanned by two beautiful bridgs. Like all mining towns, Ilocinieville is irregularly laid oil, the stream forces of loveing the bend of the river.

Steffa City

Is supported exclusively by miners, as it is one of the richest quartz iniping sections in the State. It has a population of 2,200, and has a lively appearance.

Forest City

Amount of Substitute and Substitute

Moration Boars

Is a general stage center, 35 miles northeast from Nevada City. Stages run from here to Nevada City, 90 dependent of the Morate City, 90 demonstrate to Downleville making connection with all the monitoral stages throughout aortheastern California. Sterm's after Lowis are Goudyear's Bur, Monte Christo, Neeles, Priverty Hill, Moint Pleisant, Maristinen, Gibsonville and several other inting camps.

## SISKIYOU COPNTY,

The largest in northern Cultternm, has an area of 3,890,000 acres. The principal industries of the county are mining, stock-reising and humbering. LEGSTROTTED OR FOURTREATH TWO I

## THE RESOURCES OF CALIFORNIA.

JOHN P. H. WENTWORTH.

EDITOR AND PROPRIETOR.

PUBLICATION OFFICE:

No. 320 Sansome St., Balleck Building.

ISSUED MONTHLY

SAN FRANCISCO .....AUGUST, 1883

### READ AND CIRCULATER

When you have read this paper preserve it and lend it to your neighburs, or send it to some friend in the Eastera, WestermorSouthers. Canada, England and Contiental Europe, who will wrine the information it contains, and oright he likely forous or send intelligent, industrious fixeners to settle in Culfordia.

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Wheat - A Good Section for Crops. - Rich Silver Dis-

### CALIFORNIA

Has an area of one hundred and fitty-eight thousand three hundred and sixty square miles, with mountains high and graud, valleys broad and fertile, rivers long meandering and deep, alive with fish of many kinds; she has a seacoast extending along the beautiful Pacific of more than nine hundred mites; she has mines of gold, that have produced more than a thonsand millions dollars, and of silver, in quantities, that will in time, create a commerce in magnitude, far heyond that of the great mart of New York; she has grain with which to feed the poor of Europe; she has labor for willing hands, in the tilling of her ample soil; she bus elimate unsurpassed by any other country; she has virgin soil enough for millions of comfortable and happy homes, where the church and the achool will have recognition; she has almost everything to make the truly industrious happy; she is an empire within herself, with a soil of great productive capacity, and as varied in espacity as can be found in the world; she produces in luxuriance all the semitropical fruits; she has a climate from the eternal snow of her glucial-peaked mountains, in the North, to the limpid-streamed semitropical valleys of the South; she has trees taller and grander than those of any other country, the wonder of tourists and travelers from all parts of the world; she has caves and caverns, precipices and chusms; she has walls of rock thousands of feet high, with polished and glistening sides, left by glacial action in the mighty Sierra Nevadus, silent soutinels, for ages, guarding the wonderful Yosemite; she has water-fulls, sparkling and bright, that leap from an eminence of more than three thousand feet; she has geysers, that rour, foam and hiss, reminding one of pandemouinm itself; she has raugo npon range of mountains, suow-capped and grand, admonishing man of his littleness in comparison to the juffexible law which spreads that sheet of eternal white over their mighty tops; she has barren and sandy wastes where ouly the cacli grow; she has fertile hills, where the grape is thrifty, from whose juice the sparkling wine is made, which for purity and hody is nowhere excelled; she has the railroud, marching grandly up the mountain side of the Slerras, to an altitude of more than seven thousand feet, and over their summit to the sage-hrush plains of the Humboldt heyond, and South, the great Southern Pacific ploughs its way from San Francisco across the desert plains to Yuma, thence to Texas and the Gulf states; she has an area larger than all New England, New York, Penusylvaniu, New Jersey and Delawure combined, in which

fruit, flowers and ice grow simultaneously; she sons and daughters of high moral worth and intellect, whose future will be marked and bright, for they are taught the importauce of industry; she has a city by the sea, of upward of three humbred thousands souls, representing every untionality, seven hilled, from whose port ships, wheat-laden, sail for furoff and distant countries, the product of her generous soil, a result of willing industry; she has lakes, high up in her monutain fastuesses, with water sparkling and bright; she has coul, irou, lead and tin ready for all branches of manufacturing; she has everything required for the bardy sons of industry; she has no room or use for idlers; she exacts from all, energy, application and judnstry, and in return gives a generous reward; she has nuggets of gold, which are not to be picked up from her highways, they are hid away in the depths of her mountains, and come forth only at the call of those who lahor; she invites to her shores, from ahrond, all who wish to live in a climate, which, for evenness, is unequaled; she has room for millions of willing and industrious workers, tillers of the soil, who have not entered the mail race for quick fortunes, but are content with the comfort which patient toil insures; she gladly welcomes to her shores that class helieve in the school, the church, society, hamlets and villages, and who ignore the dissolute and idle; to such immigration, she extends the right hand of fellowship, while to that other class, she says, frankly, that there is no room for them, for the State is already over-populated with drones and fortune-seekers.

### THE COMING CONCLAVE.

Our citizens, generally, are busily engaged in making the necessary and suitable arrangements for the reception and entertainment of the Knights Templars while they remain among us as our guests. From the responses already received, from many commanderies at the East, by the Committee of Arrangements, there is now sufficiently definite information to warrant the helief that, at least, 3,000 Knights Templar and, perhaps, double the number, will visit California on this occasion; and it is thought that the families of the Sir Knights, who will accompany them, will increase the number fully 50 per cent.; and will, in all probability, be the largest and most distinguished gothering of people that will take place in the Westernmost State of the Union for many years, The Trienmal Committee, composed of representative Sir Knights of this commonwealth, hold regular meetings for the purpose of discussing matters of interest relating to the success of the coming Conclave. Our coming visitors will be composed of a class of people that will be of incalculable benefit to our young State. They are the representatives of the very hest elements of every department of industry and social life, whom it will be an nonor to know and a pleasure to meet.

We anticipate an influx to the State after these visitors have returned and reported to their Eastern homes; and it is a sufe calculation to make, that numbers of them will conclude to settle up their affairs, and return and make permanent homesinthe State which they learned to like daring their brief sojourn in it. This has been the case, in the past, with a large classof people who esme to Culifornia with the view of only stopping in it afew months as a winter resort; and we see no reason why temporary sojourners, like the Sir Knights and their friends, will not pursue the same course. To our mind, there are suf-ficient reasons why many of them should conclude to make their future homes here. They will, as a rule, be composed of meu possessed of considerable wealth, great foresight and sagacity. After visiting many places in Califormia, will readily observe that there is more prosperity and rapid development of the resources of our State, in proportion to the number of its inhabitants, than can be found olsewhere, and conclude that there is no other community which can compare with the Golden State in point of olimate, richness of soil, and natural advantages for great business enter-In our judgment, there is no other State that holds out so many inducements to immigrants with some means, strong hearts and willing hands.

Our visitors, in traveling over the State, will observe that since the discovery of gold it has been gradually alling up with un enterprising

golden harvests; industry and art, in multiplied forms, have maderapid strides of advancement; established cities and towns have given permanency in haviness and made comfortable homes. All that is needed is a fair and reasonable pre sentment of our varied resources and wonderful productions to convince capitalists, among the Sir Knights, who may visit as from every State in the Union, that no country in the world surpusses the Golden State,

The importance of this visit to our State, iu the beneficial results that may flow from it, oan not lie overestimateil. A better opportunity will, perhaps, never he offered California to tunke known ahroad her advantages, and increase its population with worthy, wealthy and enterprising people. Every community throughout the commouwealth should make arrangements, for its own sake as well as for the State, by receiving and properly entertaining these distinguished visitors. They should spare no puins in showing them the nutural resources and the developments which have been made in their respective localities. Whatever money or effort may be expended will bring a thousand fold return in the way of henefits, to asy nothing of the satisfaction and pride every citizen must feel in having California make u creditable showing. On their return to their respective homes, the opinions expressed will have great weight, and, to a considerable extent, will affect future immigration. The reports that will be sent to the Eastern and European press will also have a pronounced effect. short, this is a good opportunity to present California as she is. Let us do it.

## CALIFORNIA WOODS.

Encouraging evidences of the intelligent appreciation of California woods multiply every year. Farniture is manufactured extensively in this city and other large towns of the State from these woods. It will be remembered that the furniture of the Palace Hotel of this city was made exclusively of woods grown here We learn that in the largest countries of Europe, California evergreens are grown in public and private parks and gardens, and are greatly admired. Independent of the woods, chiefly valued for ornamental purposes, there are native woods, too numerous to mention, which are of commercial importance and bring high Our lumber yards contain a great variety. Not loug ago, a writer in some one of onr interior exchanges, called the attention of people in want of business to the almost entirely neglected industry of wood-work in mannfacturing articles of atility or ornament from the putive woods of our State, This writer stated that there was quite a slemand in the Alfuntie States, among colleges and scientific institutions, and also with many individuals of culture, for simple rough pieces of wood speci-He had sent many redwood chips mens. through the mails. He adds, that there are innumerable little wooden articles now imported that ought to be made at home, and a surplus exported. They could be made of such heantiful and valuable woods us to entirely drive the common articles from market. Here, then, it would seem, is a chance for those who complain of having nothing to do. As showing how highly California redwood lumber is prized, we recently saw it stated that a lumber firm in Portland, Oregon, intends purchasing building material in California. The firm claims that it is cheaper to import a eargo of redwood from this State than to hay the best grade of lumber from local mills. This is high praise for our redwood lumber. It is virtually admitting that it is ahead of Oregon pine.

## OUR RAISIN INTEREST,

Persons competent to judge believe that the raisin crop of California, the present year, will be from 200,000 to 250,000 hoxes. Some of last year's raisins were much better than any over produced in the State. Those which were exported met with a ready sale, and are pronounced to be of an excellent quality. is now protty well sottled that California will soon bo able to produce all the raisins required in the United States. Every year shows more clearly than before that our raisin interest must soon become one of very great importance.

population; that great areas of land burr heen tronght under cultivation and made to yield this journal is, and send it to their friends Culifornians should feel a prido in a publicution which is doling so much for the State as

## DAIRVING IN CALIFORNIA. There is probably no other country in the

world hetter suited for this husiness than our State. By what we can learn from experienced iluirymen this is an interest, which, if followed systematically, even on a small scale, can readily he made to pay something over expenses, The fucilities for currying it on are so great in many counties, that it is becoming difficult to make special mention of any particular locality. Perhaps the foothills and mountain valleys, as thoy are generally well watered and sarrounded with timhered hills, should be classed among the best sites for mrn of limited means. In such localities ruttle have long ranges of excellent feed for a large portion of the year. Then ngain, there are localities in the large valleys where the husiness of dairying can be success fully and profitably pursued, on a large scale by rapitalists who are looking for openings where they can invest money to a good advautage. Another great advantage is the fact that abundant supplies of alfulfa cun he grown at a small cost, which will always seeure stock against even a season of drouth. We might make mention of individual instances of those who have been successful by conducting this business for several years in San Luis Obispo, Marin, Humboldt, Sonoma, Los Augeles and other counties. 'The Swiss people, located in Sonoma, Mendocino and other portions of the dairying sections of the State, have been very prosperous. They are among the most judgetrious of our citizens. They puy high rent for land, when they do not own it, and, we believe, from what we have learned from reliable sources, that they conduct the business so suc cessfully that it pays large profits annually During the last few years this interest has de veloped to a large extent in California. We frequently see mention made of instances of men, who, ten or twelve years ago, began with very little means, that to-day own valuable farms. There is still room in the State for thousands of dairies, both large and small, where, with a little capital, industrious men may acquire good homes for their families.

General Shields, of Los Angeles, has, in years past, furnished the press of the State with many articles full of valuable information cencerning ulfalfa and the dairies of Southern Culifornia. In one of them, he states that alfalfa grows rapidly, summer and winter. Seven mowings may be made during the warmer, and two, during the colder months of the year. One ton and a half of dry hay per acre at each mowing is a low average yield, amounting to thirteen and a half tons per acre for a year. He says that there are not less than 200,000 acres of first-class alfulfa land in Southern California, exclusive of land devoted to wheat, fruit and corn culture. This area would produce 2,700,000 tons per annum. The General makes mention of many instances of those who are largely interested in the dury business in that section of the State,

that are realizing large profits annually. Our State possesses a vast source of wealth in its pastural resources, and we must bring these and other advantages properly before the world, if we would make them available by inducing immigration of the right kind

## A GOOD AGRICULTURAL SEASON.

It is conceded, by competent judges, that this is, taking crops and prices together, as good an agricultural senson as the last one. In many places the grain is already harvested, and the yield is much better than was anticipated three weeks ago. The senson is, therefore, I prosperous one. And this prosperity is confined to agriculture, it relates to all the leading industries of the day. Mining is prosperons. Building, in all departments, is brisk The demand for lumber has been active. Not only are building operations very extensive in this city, but there is a great deal of building in the country. The spirit of improvement has taken held of the people. It almost invariably follows that whou we have a good year agriculturally, we have a good senson for mechanics, especially for corporators and bricklayers. As soon as people acquire means they begin to make improvements in the country.

In a fow weeks the unusal fair of the State Agricultural Society will open in Sagramento It ought to be the tast one ever held in California. It will be, if it is at all an keeping with our agricultural resources. There has been a timo when the agriculture of this State was attracting so much attention as now,

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ment and a lovely home.

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165 ACRES FINE FRUIT LAND
168 In the Vacaville warm fruit belt
all fenced, tt5 acres under cultivation, balance pastinand limber, good orchard, 3500 fires, choice fruits, 21
acres vineyard, fib. varieties of table grapes, present
cop worth 44000, one-ball of which is inclined in the
price, payable in cash at commission merchants, on
San Francisco, all incessary larming toots, 8 fors hay,
450 fruit hoxes, one 2500 fruit wagon, house, barns,
first-packing home, ont bouse and sheds, two good wells
and several springs of the water.

TO EXCHANGE FOR CITY OR OAK
COURT, 40 arms rich bottom land, 25 acres finest grape
land, shoulded yn o Irost, half the season's crop of gratu
and slithe polato crop gots with the place, good timber, no underbrush, house of 5 rooms nearly new, house
and barn supplied with water by pipes, exchange tuny
be made for parl property, some coln and balance on as
easy terms as may be required.

S, 000 • EIFY Beautiful farm, 169 acres, lirec hours from San Francisco, and produced over a fono ol grain to the acre this year, all rich, level loam soll, lenced and cross fenced, all in cultivation, nice facility ordered, good new two-story house of six rooms, cellar and welf furoished, fine parior and bed-room sets, large barn and out-buildings, will include 8 lead of good horses, 2 cows, 4 helicrs, 100 chickeus, il new wagsons, 3 sets double harness and 1 single gang plow, small plows and numerous other farming imprements, carpenter and blacksmith tools, a lot of hay, cic., cheapest place in the market

\$7,500. NAPA COUNTY, 75 ACRES RICH varies in vineyard, 30 acres in vineyard, 30 acres wheat, 10 acres rich bottom 501, horses, cow, fowls and all necessary farming implements

\$4,000. 62 ACRES, 2 MILES FROM NAPA, adapted for wheal or grappe, 13 areas of vineyard now on the place, vines 2 to 8 years old, house, etc.

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We sometimes see it stated in our exchanges that a feur exists, to some extent, among farmers that their crope will, if they continue to be as good as they have been for the last season or two, become so abundant, econ, as to bring the price of produce to low figures in the market, Some are disposed to grumble, it is said, hecause of this feared result. We confess that we cannot understand this kind of grumbling. Well filled barns and larders, plenty of fat pigs and horsee, cows and sheep, make happy, prosperous homes. A wise and prudent farmer can alwaye turn his surplue farm productions into a remunerative channel. Let him, for instance, convert his corn into bacon, his hay, alfalfa and pumpkins into milk and butter. raise chickens and eggs for market; in this way he can convert cheap products into those that will pay him a handsome profit. In our opinion, a community cen never have too much of the substantials of life on hand. The farmer who pursues this policy will always have money in his pocket, plenty around his home, and be free of debt. Such a farmer will always prosper and live contented. The fears entertained and expressed by some of our friends in the rural districts sound a little ludicrous. Insteed of baving any such apprehensions concerning over-production, they should greatly rejoice at the prospects of abundant crops. They should diversify them in the way we have suggested. That any of the farming districts of California should import such articles as bacon, ham, cheese, dried fruits, etc., which, of necessity, have to be paid for from the proceeds of their local resources, indicates a want of thrift, and a lack of confidence in the productive industry which creates wealth. If left altogether to its own resources and debarred from foreign importations, there would, in a short time, be a wouderful development in the bome productions of California.

## THE INDUSTRIAL FAIR

The Eighteenth Industrial Exhibition of the Mechanics' Inetitute will open in the new pavilion, on Larkin Street, on Tuesday, September 11th, and closes on Saturday, October 13th. It promises to be one of the most noteworthy expositions of California industries ever held, and it is already attracting the attention of business men in a manner that would indicate the liveliest interest on their part. This is sufficient warrant for predicting its enccess. The large number of visitors who intend to take part in the Triennial Concluve of Knights Templar, occurring in the latter part of this month, will naturally look to this Fair for much information regarding the producte and industries of our State. Those who exhibit will have an extraordinary opportunity to show and explain their articles. For the first time in a number of years, the department of mineralogy will be represented by a well assorted collection of specimens, including camples of the most important oree and minerals found on the Pacific Coast. Every possible tangible evidence of our young State's producing cepacity, embracing something in every department of labor, will be gathered together at the pavilion. F irs bave become a most important means of advancing the industrial improvemente of the In short, it is a recognized fact that expositions are of immeuse benefit to all who have anything they wish the world to know about. Every convenience will be supplied for the comfort of visitors, and no pains will be spared to make this the most satisfactory exhibition yet held in California. Those who intend to be exhibitors are earnestly requested to lose no time in applying for space. All information may be obtained from our old friend, J. H. Culver, Esq., the indefatigable secretary of the Mechanics' Fairs for many years.

## ESTABLISHING HOMES.

The Shasta papere state that a considerable number of immigrants have recently established homes in the little valleys in that section, which are rapidly filling up with an industrione and frugal people. During the last week or two, several carloads of settlers passed through Sacramento going in that direction. This would seem to indicate that the opening of railroad communication through from Redding to the Oregon line is already attracting people to that part of the State. It is understood to be the intention of the railroad officials to reach the Oregon line within six months,

Under the above heading we take the follow ing from a late issue of the Commercial Herald of this city:

California this year will be the bonner wheat State of the Union. Its yield will, almost to a certainty, approach seventy millions of bushels. This will sell, taking the whole year tbrough, at an average of not less than \$1.60 per ceutal, or 96 cents per bushel. The average yield will be not less than twenty busbels to the acro, but it will reach in placee as high as thirty, and in others as high as seventy bushels to the acre. Compare this with the average yield of the Northern Stutes not given hy statistics at over thirtoen husbels to the acre, and it will be seen at once what a great advantage California has over other States. Seven bushels to the acre at 96 cents per bushel makes quite a headsome profit for the investor. And there is no part of the State that is not in ensy reach of navigation or of title water; not like the Western States, which, bowever fertile their lauds may be, have still thousands of miles over which wheat must be carried before it gete to a port.

We can raise in the Sacramento and Sau Joaquin valleys as much wheat as was raised iu all the United States last year. If we add Oregon and Washington Ferritory, we can double the quantity. A thousand million bushels of the finest wheat in the world can be raised in these three Pacific Coast countries that is to say at a low figure, a thousand milhon dollars for half a million farmers, and a large number of farm help in addition. In fact, if these broad acres of the Pucific were cultivated as they are in Great Britain, there would be room for just double the number of farin proprietors. And this is for wheat alone, no account being taken for vine, fruit, barley, oat or grazing lands.

## GRAIN ACREAGE FOR 1880.

The committee on Information and Statistics of the Grain Exchange has prepared a statement of the number of acres seeded to wheat and barley in each county in California for the last two years, with the actual yield of the same for 1882 and the estimated yield for 1882, The following are the figures of a few counties for the estimated yield of 1883;

In acreage of wheat sown, Coluea leads with 435,000 acres; tollowed by Stanislaus, 320,000; Sau Joaquin, 300,000; Merced, 180,000; Butte, 175,000; Tehama, 160,000; Napa stands twentyfourth with 27,200 acres; and Lake has 8,421; Yolo, 130,000; Solauo, 100,000; Sonome, 100,-The total estimated acrenge is 3,145,026 In estimated production Stanislans heads the list with 3,500,000 centals; followed Coluse, 3,500,000; San Joaquin, 2,750,000; Butte, 2,600,000; Merced and Tehama, 1,700, 000. Napa is twenty-fifth with 245,000 centuls; Lake is given 125,000; Solano, 1,200,000; and Sonoma, 980,000. The estimated total yield is 81,842,600 centals. In barley Alameda leads, being accredited 1,100,000 crutals, or almost double that of the next highest county, Monterey. Napa is given 1,200 acres of barley with an estimated product of 5,000 centals, The totals compare with those of the previous

OLAS MID EGITORIOS		
1883,	Wheat2,039,139	12,507,672
1689,	Wheal	31,842,600
	Barley 679.00%	7,141,140
1882.	Bartev 902,611	8,778,500

## COMING TO CALIFORNIA

The Rocky Mountain News says that the question of emigrating to California is being discussed by a large number of people in Colorado, and colonies are being formed. An enthusiastic meeting was held in Denver a chort time ago. Let them come, we can accommodate them: California is large enough and rieb enough to support teu millions of people,

## A NOTABLE WHOLESALE LIQUOR

Liltenthal & Co., No. 160 Front Street, bave on hand, by direct importation, a large slock of liquors, they offer to the trade at low prices and on fa they one to the trace at low prices and on Inversion Fernia. Regarding their whockies, whose and brandles, there is but one opinion among completeness, mainely, that they are at least fully equal to the best to be found in this market. We advise those who may wish to purchass anything in this line to give Lillenthal & Co. a call, as they are worthy of the condition coof their patrons.

## BRICKS.

The brick yards of Los Augeles put out Subscribe for The Resources of California, on them for about 100,000.

### THE POOT-HILL LANDS

There is much more good land in the footbills of Nevada county than the county is given credit for, there being numerous valleys that will produce harley, oats, grasses, alfalfa, vegetables and fruits, and on these lands or on the higher slopes the grape is cultivated with great anccess. Some of these valleys have more or less of a ricb, black loam, that is especially adopted for vegetable gardening, while the uplands show more or less of a decomposed granite soil, which is well adapted to grun. The country is sufficiently well tumbered with white oak, and pine, for the uses of the settler, but not for building purposes. A great deal of this land is occupied, originally held under settlers' titles, but is being gradually secured. by patents from the General Government, or from the Central Pacific Ruilroad Company, whose grant of the old section covers a considportion of this region. It cannot be said that this foothill country will rival the valley region in its general farming capabilities, but for the grape and fruit culture it is equal, and none the less inviting field for the industrious men. It is a country that is steadily filling up with a good population, and the charges which have been made in the character of haildings and fences, and the extent of the enclosures is very marked in the last few years. It is a very beautiful region, as well as picturesque in its physical features, and at'this ecasou of the year affords a most delightful prospect to the eye of the traveler. This country, which embraces all of the western and southwestern portions of the county, and embraces about six congressional townships, is almost exclusively adapted to the purposes above stated, and for cattle and sheep grazing, und is gradually growing in population and importance, and will continue to do so in the future .- Grass Valley Union

Wbut the Union says of Nevada county foothille is equally true of those of the county of Butte. The quality of the lands is the same, and so is their adaptability to the growth of the products mentioned in the above extract. Large tracts of the foot-hill lends of this county are held by parties whose only title to the same is e brush inclosure, and this title ie not velid in law. But there is also considerable land in Oregon, Bidwell, Ophir, Wyandotte, Oro, and Mountain Spring townships, which is still open to settlers, without the necessity of breaking down brush feuces. There is hardly a quarter section among the foot-hille of this county that does not coutain more or less laud suitable for orchards, vineyards, and gardens, and upon which a man could not raise hay enough to keep a few cows and a sufficient number of horses to do his work. Lumber can he obtained by going a short distance into the mountains, at very reesonable prices; and all the farm products in excess of the wants of the family can be marketed at remunerative rates. These lands are mostly under the different irrigating canals, the water of which can be used for the purpose when needed. Springs are numerous, and good water is the rule course, big returns cannot be expected at once, but an industrious man cau make a comfortable living, and save a little money from year to year, without the caree and auxieties incidental to ferming in the valley .- Oroville Mercury.

## EIGHTEENTH

## Industrial Exhibition

## MECHANICS' INSTITUTE

WILL OPEN TO THE PUBLIC

TUESDAY .... SEPTEMBER 11, 1883, AT THE

## NEW PAVILION.

Larkin, Hayes, Polk and Crove sts.,

And Continue until October 13th.

A Comprehensive Display of Pacille Cons Padacts, Mechanical Pengross, Art, Agri-ulture and Hortlevitate with he fully rep essured in the Grand Mechanics' Pavillan.

P. R. CORNWALL, J. H. CULVER,

President,

Secretary

### SISKIYOU COUNTY.

[CONTINUED FROM ELEVENTH PAGE ]

The gold mines, both placer and quartz, are among the first in the State. In early times they were confined to the hed of the creeks, and the development of even these claims were greatly retarded by the serious difficulty of traveling so long a distance from San Francisco, Yreks, the county seal, being 428 miles mirth. It is 120 miles by stage from Redding, but will soon be within hearing distance of the whistle of the iron horse, on the roat between San Francisco and Portland, Oregon. Then mining machinery can easily be brought in for the development of the rich quartz ledges known to exist. In addition to gold, silver, copper, iron, cost, chrome and quicksilver are found in the county. The agricultural resources are hecoming quite important. An increased acreage of land is being annually cultivated. The valleys of the rivers, especially the Kismath, Shasta and Scott's river, northeasura Biskiyou and the lake region, taken as a whole, contain many thousand acres of fertile lands, all susceptible of cultivation. Fruits, vegetables and cereals all do well. The whole county is particularly well adapted to stock raising. Hay, for winter, is raised upon the meadows along the streams, while the hilbides are covered with binned grass. The valleys affaforing good summer pasturage, but the fall of snow is beavy at this altitude. Large amounts of good Government land are not yet taken up. The mountrins and hillsides are covered with forests of sngar and yellow pine timber, and will be a great source of revenue to this county as soon as the railroad is completed.

The county seat, contains about 1,500 tuhabiltants. Yreka,

The county scat, contains about 1,590 tubabitants. It is strictly a mining town, is 2,500 feel above sca level, and bas a good, healthy climate, Firl Jones,

The second largest town, lies some eighteen miles south from Yreka. It has about 500 inhubitants, and is an important business center.

Etta Springs.

In the same valley, 10 a thriving place of some 400 people. It is the headquarters for farmers, miners and the Salmon river freight.

and the Salmou river freight.

Sawyer's Bur
Is a prosperous town. Several rich quartz mines are in the vicinity. There are a number of smaller villages scattered all over this mountainous country. The population in 1880 was 3,610, which would number fully 10,000 people at this time.

## SULANO COUNTY

sy. The population in 1880 was 8,610, which would number fully 10,000 people at this time.

SDLANO COUNTY

Is one of the most important agricultural and fruit counties in California. It has no superior and soarcely an equal in the variety and extent of its soil. For early fruits and vegetables it stands first on the list, always sending to the San Francisco markels the first of every variety known and grown in Northern California. It is one of the smaller counties of the State, having an arcs of 576 570 carcs. Railroads traverse the entire county in various directions.

The census of 1880 gave Solano a population of 17,480, which has nucreased rapidly within the past two years, and we may safely count in 20,000 people within her borders at the present writing. Two-thrists of the land in the county is being cultivated. About 50,000 acres are swamp and overflow lands; fully 10,000 acres of this are mud flats, left bare at low tide, and about 45,000 acres are partually eclaimed and fitted for agricultural and grazing purposes. Montezums bills occupy the southeastern portion of the inpland of the county. The leasant valley is located in the southwestern portion of the inpland of the county. The infilt valley is noted for its peculiar, genial climate, being free from frost.

The Assessor has classified the lands of Solano county into five grades. The first, of shout 40,000 acres, its the very best quality of vegetable and fruit lands, and, in point of riebness and productiveness, cannot be surpassed in the State. The second comprises the best quality of vegetable and fruit lands, and the high monitain ranges, unproductive, as yet, except for pasture.

Valleja

Contains about 6,500 libebinats. It is the lermins of the California Pacific Railroad, and the fight monitain ranges, unproductive, as yet, except for pasture.

Valleja

Contains about 6,500 libebinats. It is the lermins of the California Pacific Railroad, and the ferry, which ruus up to North Vallejo, connects with all trains over the Central Pacific Railroad

Fatrfield,

## The county seat, a small place of 600 inhabitants. The fourth town, in point of population, is

Dixon. It has about 800 Inhabitants. The next largest town is Vacaville, in the western portion of the county, and situated in one of the best fruit and grain sections of the State. He Vista imaja population of about 800. Elimira has 350 inhabitants.

SONOMA COUNTY. The area of Sonoma country is 850,000 acres, and the present population is 25,000. The natural curiosition of Sonoma are remarkable, such as the world-famed Geysurs. Litton Springs are another curiosity, where Seltzer water is obtained. White Sulphur Springs, Stagg's Springs, Mark West Springs, Alter Gion Springs, all have different medicinal qualities.

West of Sonoma va.ley, and separated from it by a low range of mountains, is the main great valley of the county, running from San Pablo bay in a northwestern direction the entire length of the county. The southern portion at this large and fertile plain is called Pelaluma valley, the central portion is known as Santa Hosa valley, and the

northern portion as the Russian river valley. Besides these there are several other extensive valleys.
No more diversified soil can be found in any county
than Bonoms possesses. Fruit and other crops
thrive here. And no other county in California,
with so much fine agricultural hand, has such inmense forests of timber. At Guenneville, twenty
miles northwest of Sunta Ross, and at the terminus
of the 8. F. & N. P. R. R., we come right into the
heart of the redwood country. Here are tound
extensive saw-mills, producing from 12,000,000 to
5,000,000 feet of redwood lumiler annually. Russlan river is the largest stream in the county.

Santa Ross.,
The county seat, with a population of 4,700, 1s sit

The county seat, with a population of 4,700, is situated in the center of the valley, on the 8, F & N. P. C. R. R. Il possesses colleges, fine water works and several street railways.

Numbers 4,500 people. It has excellent drainage, and its streets are well graded. It is well watered by the Sonoms County Water Works, and is lighted with gas.

### Healthkure

Head a population of 2,000. It has an abundant water supply. The chimiste is one of the finest in the State, and no better land can be found in any country than in the vicinity of Healdsburg. The uplands cannot be excelled for the grapes and excellent fruits.

## Songime

Sonoma's early history detects back to 1835, when it was laid out by General Vallejo, who is still living here. Sonoma valley is about 50 miles due north from San Francisco, and is one of the most eligible points for a country residence. Its soil is most fertile and highly productive. Its climate is verguable and oetightnil. The Sonoma Valley Railroad is now completed from Sanoma Landing into the valley for a hislance of filtern miles. The entire valley is taken up with vineyards. Sonoma valley is from eighteen to twenty miles long, and from one to six miles in width. There are about 600 people, of nearly all nationalities.

The county seat, is on the line of the S. P. R. R., B., B3 miles southoast from San Francisco. It was laid out in the fall at 1870, and possesses a population of 2,300.

### Onkdule

Orichile
Contains 950 people. Oakdale is the shipping point for most of the freight and travel to Tuolimne county, which is here transferred to teams.

"Turtack,
In the sonthern portion of the county, an the line of the S. P. R. R., is the central point for a large scope of lertilo country.

HIT's Perry
Has a population of 359, and is airrounded by a large section of fine agricultural country.

Kuight's Perry.

The former county seat of Stanishaus county, is lo-

The former county wat of Stanislants county, is located in the footbills, on the Stanislans river, near the asstern boundary of the county, and is the shipping point for large quantities of wheat. The population of Stanislans county is 10,000,

### SUTTER COUNTY

SUTTER COUNTY.

The Bacramente River forms nearly the whole of the western boundary, while the Feather River, after forming nearly two-thirds of the western line, flows through the southern part of the county into the Bacramento. The facilities for navagallon and irrigation are unsurpassed, the Bacramento being navigable at all times of the year. So is also the Feather, as far as Yuba Oity, the county seat. The Bear River, quite a considerable stream, flows through the southern part of the county before it empties into the Feather River.

The Buttes, a collection of mountain peaks, situated in the northern part of the enumly, rising to a keight of 1,000 feet, occupying su ares of four by twelve miles, constitute the billy portion of Sutter county, the balance of its territory being all level, and most of the soil in the coun y is a rich, black loam. A large portion of the area of Sutter county is a special productive agricultural land as there

### Rebuiens,

Tehrion,

The second lown in the county, has a very pleasant location on the west bank of the Sagramento, and at the junction of the California Facile Bullroad sail the junction of the California Facile Bullroad sail the O. div. of the C. P. R. R., 12 miles sunt of Roy Blatt. It has a population of 700. The otherowise are: Antelinge, Butto Mradiwas, Cosal Range, Cascade, Copeland, Cottonwood, Ehler Creek, Ritawa, Elmire, Elkins, Floyd, Chesonville, Houlyville, Howell, Hunter, Johnson, Laivery, Live Onk, Lassen, Monty Ranch, Montgamery, Mirry, Oak creek, Riceville, Rawson, Rreni's crack, Rel bank, Slony creek, Jasma, Toomes, Vinn and others. The population of Tehana county, in 1880, was 9,300, but, at present, it would amount to 10,000.

### TRINITY COUNTY

Contains an area of 1,880,000 acres. Gold mining is the child support of the rounty; the gold shipped annually from this county amounts to nearly on million dollars. The population of the white county is only 4,998, nearly all numers. There are many prosperous mining camps in the county.

weavervifte,

Weavervifte,

Weavervifte,

The county seat, and one of the pretiest little
towns in the mines, contains 750 inhabitants. It is
surrounded by many line orchards, the fruit of
which attains an excellent flavor in this locality.

Trintty Center,

On the stage road from Shasta to Yreka, is the second place of importance. The valley has a number
of good farms, the produce of which finds ready
sale at home to miners, teamslers, and travelers.
There are good paying mines in the surrounding
bills. Hayork valley is an important farming region, and there are a number of good farms along
the Hayfort and the smaller streams emptying into
it. Indian Creek is a mining camp at the head of
this stream, in the dividing line between Shash
and Trinity. There are some good paying quarts
ledges in the vienity.

## Douglas City,

Douglas City,

Is the central point for a good mining region.
Lewiston is also on the Trinity, cloven miles above
Douglas Gity. The Deadwood quartz district is in
this vicinity. Mineraville is on the east fork of
Stewari's Fork of the Trinity river, in one of the
best gravel mining districts in the county. Cinnibar, or Altoona, is the most morthern settlement in
the county, and is a small place. It is in the
quiokaliver mines, which are now only partially
worked, an account of the metal. Junction City
iles southwest of Weaverville, in a good paying
mining district. North Fork is some eight miles
below Junction city, in a good maning district. Cox's
Bar lies len miles below North Fork, antreunded
by rich gravel claims. Martinville is in the northwestern portion of the country. New River and
Ratileshake sire small settlements, only accessible
to pack frains. Canyon City, on a creek of the
same name, is nine mites from Junction City and
18 from Weaverville, in a good mining district.
The most serious drawback to the country is its
long dislance from a market. Weaverville is 218
miles north and west from Sacramento. The roote
is 180 miles by stage. The mountain wagon reals
are usually good. Trinity has considerable good
saw timber, and very fair agricultural land open to
settlers.

Has an area of \$4,00,000 acres. Tulare belongs to the great San Joaquin valley. About 2,000,000 acres are mountain, the highest peaks of the great Sierra range frings the eastern hirrler Mount Whitney, 15,055 feet blgh; Mount Whitamson, nearly the same bright; Mount Mountain the United States. About 1,000,000 acres of the county is broken land, with small, elevated valleys, succeptible of settlement, where the herdsmen keep their flocks of sheep and cattle in summer.

The Visalia land district embraces Fresno, Tulare and Kirn counties. These counties comprises a great feet valley, with the Sierras on the cast, and the Coast Kange on the West. They countain more than 500,000 acres of tweel land, sad tout-infil land. Through the center of these counters must be Sonthern Pacific Raitroad. The odd-numbered sections of land, for twenty miles on each side of the road, belong to the Raitroad Company. The sven-numbered sections of Government land, are still be suffered to the road, belong to the Raitroad Company. The sven-numbered sections of Government lands are subject to private entry, they can be obtained only by pre-emption and homesteal settlem. There is more or less visent Government lands are subject to private entry, they can be obtained only by pre-emption and homesteal settlem. There is more or less visent Government lands are as food in gnality as private lands in the district worth \$25 per acre, Noue of the Government lands here as good in gnality as private lands in the district worth \$25 per acre, but these private and hemister works been increased in value by cultivation and means of irrigation. Facilities are at hand to make the public lands equally valuable.

Visulta

The second largest lown in the caunty, is situated in the lanners. Mussel Slongh, country comprising the finest body of sgranitural land in the county, on the second second in the county to country is

## Tulpin Chy.

Located on the main line of the Southern Pacific Railroad and the terminus at the northern division. Extensive shops for the repairing of locomotives are located here, furnishing employment for a number of mechanica. The town has a population of about 500,

## Grangeville

Is heated in an excellent grain and fruit producing country. The faul here is all irrigated, and pro-duces large crops nanually. The town contains 150 Jahnbitants.



### Claverdale.

At the head of Russian river valley, is the terminus of the S. F. & N. P. O. R. R. It has a population of 800,

Fulton is the junction of the S. F. & N. P. C. R. R., and the Guerneville branch.

### Guernevitte.

Guerneville,
One of the liveliest towns in California for its size,
has four extensive saw mills, which cut and ship
about f2 000,000 feet of redwood lumber annually.
Ten miles further west, at the terminus of this
railroad, and at the mouth of Russian river, are

## Duncan's Milts,

Producing large amounts of himber annually. We make the following estimate of standing redwood yet in Bonoma county: In the vicinity of Guerneville, 100,000,000; Occidental and vicinity, 25,000,000; Ducaria Mills 75,000,000; fordwaters of 100 Gualaia, 150,000,000; total, 235,000,000 leet. Summing up Bonoma county, as a whiste, we must say it is one of the finest counters in California.

### STANISLAUS COUNTY

STAMSLAUS COUNTY

Has an area of 924,500 acres. The soil of the east side is of a sandy nature, verging to a loamy character as the foothills are approached. The solt of the west side is a rich loam of indefinite depth, and, with an aboutdance of moisture, yields large orops of cereals. The large average yield, in lavorable seasons of abundant raufall, he an indication that when, in the tuture, a system of irrigation is imagnerated, by which these lands may be pleutitally watered, their productiveness will insure the most hountful returns. The valley fands, which comprise the greater portion, and which have a gentle, inform since, tavorable to Irrigation, are generally in a position to be welf watered from the Binnishnus and Tuolume rivers, and on the south from Tuliare lake. The Sau Josquin canal, on the west side, now irrigates same 20,000 acros, and is intended to be carried on down through the country in the martiture. The Sauthern Pacific failing a passe through the

culture.
The Southern Pacitic Stallmad passes through the central part of the county, from San Francisco to Los Angeles.

is in the State, producing large crops of wheal, barley, oats, corn, heans, potatoes, hops, oulons, hay, and all kinds of root orops. Few places in the State coutain handsomer and more comfortable farm buildings than Satter county, which fact is suggestive of the prosportty of farmers in this locality. The climate of the apper Sicramento valey is quite bot in sammer, but the nights are always cool. Vegetables and fruits of all kinds attain an immense size, on account of the rich soil, long seasons, and abundance of rain.

## Yaha City

Has a population of only about 700. Marysville, which is so close to it, is the principal commercial center for the upper Sacramento valley. The pupulation of Sutter county is 5,159, principally larmers, although there is a number of small piaces, in the county, will one or two stores.

### TEHAMA COUNTY

Has an area of 2,000,090 acres. The Sacramento river llows through it, and the nountains are covered with excellent saw timber, consisting of yellow and sugar pute, and fir is found, especially on the western slope of the Sterras. The lumber interest is second only lo agriculture, which is very lumportant, especially in wheat, barley, outs and large. There are two ktudes of productive valleys: the level lands near the rivers and small hellows in the mountains. Their fertility is a instance in the state. The soil of the valley lands of Techana is a dark, and of formerly coundered valueless, have been lands for the very beat. By summeriallowing they produce coronously every second year, and are inexhaustible. Wheat is the largest crup at present. Fruit and vineyard onliture are becoming noted at Vireland. Excloy. Stanfard is irrigating it, and preparing it for the planting of the largest vineyari in the world, file has visited the most anted vineyard countries of Europe, and employs hundreds of meu.

Is pleasantly stimled in a fine farming country, and has a population of about 9,500.

The other towns of the county are Lamore, Porterville, Goshen, Farmersville Woodville, Grandview, Plane and Tipton, the twn largest being Lamom and Porterville, which have a population of about 200 each. The capabilities of this county for supporting a large population are remarkable. Here are immense forests of turber.

Mines and mining are the principal interests of the county. The Excelence, Riverside, Buchanan, Golden Gate, and Santa Moulea are all large mines. A network of quartz veios threads the granite and slate ranges, lumifreds of which are yet improspected. Aumong those that are being worked, few, if any, are fully developed, There are fully 500,000 acres of good, tillable land, open to settlement.

Has about 1.400 inhabitants, and is reached from San Francisco by rail (by way of Stockton), in Oakdale, the terminus of the Copperophia road, and from thence by stage a distance of 35 miles; the total distance is 157 miles syst of San Francisco. There are a number of good paying quartz mines in operation in this vicinity.

### Cohumbin.

Contains 500 inhabitants. Chinese camp, eight mites south-east from the county seat, has 400 mbahitants. Some fifteen miles east is Big Oak Flat and Garnto district, smid rich and extensive mines. Fruit-raising, to which the soil is allapird, is one of the growing interests of the county. Semi-tropical fruits and vince are entitivated, and raisin grapes do remarkably well in the valleys and footbills. The area of the county is 1,230,000 acrea. Forty or fifty thousand acres might cultivated to fruits, vincs, and cereals. The population of Tholumne, in 1889, was 7,818, but would reach about 8,000 at present.

## VENTURA COUNTY,

Has an area of 1,206,000 acres. The San Rafael range of menutains form the northern line, the Fernando and Santa Susana. The county is well watered.

watered.

The principal valleys are Simi. Los Posas, Sauta Clara, Pleasant, Ohi and Normdueff. Frost and snow are seldom seen, and little rrigation required. Los Posas is, perhaps, the lest in the county, and its lands are all tillsble. Santa Clara has an extreme length of about 50 miles, and measures about 25 miles in its widest part, and lies along the Santa Clara river. Its lands are good and well watered, Irrigation is but little needed; artesian water can be obtained at less expense here than in any other part of the State. Nordhoff valley is about 22 miles in gong and 14 in width. Through it runs the Ventura river, in a winding course, to the sea. The old of Ventura has scarcely been fouched. The time is not far distant when this will be one of Ventura's greatest revenues.

### San Buenaventura,

The county scat, is situated on the sea-shore near the mouth of the Ventura river. The sit is adapted, by nature, for the boilding up of an at-tractive and imposing city. Looking eastward we could see the broad valley of the Santa Clara, cov-

ered with waving green fields. Turning north, up the valles of the Ventura river, is a fine wide avenue lesding out of town with fine orcherds and well cultivated garcens and residences of some of Venturas wealthtust citizens.

Venturas wealthfust citizens.

Hacecome
Is situsted on nearly level ground, almost touching
the sea. This is considered one of the finest agricultural sections in the State. Between San Buenaventura and Newhall, in the Santa Chara valley,
lies the second largest own in the county. Santa
Parths, surrounded by Orange irrelards and grain
fields, the village has 200 inhabitants.

### Nordboff.

Nordhoff,
A famous resort for plusure suckers and invalids is reached by daily stage and is located about 12 miles from San Buenaventura in what is known as Ojai valley, it is beautifully situated bytween the Ventura river on the west and San Autonia creek on the east.

## Salteoy

Is the center of a magnificent agricultural country, Ventora county also boasts of several good minoral springs, which are frequently visited by invalids. There are many thomsand acres of government land, usably in the mountains. There are numerous little valleys scattered through the mountains where sheep men keep their flocks.

## YOLO COUNTY,

Note: Steep like in the last agricultural sections in all Celifornia. He great Sceramento river forming its entire casteru boundsry. This is a prosurem's and beautiful county, with an area of 650,000 seres. The larger portion occupies one of the most fer ille sections of the Sacramento valley. Land is yet quite reasonable in price in this vicinity. The country all along the easirn slope of the Coast Range, known as footbills, has numerous little valleys, which is the choicest fruit land in like State, while the mountain ranges are usually including the valleys, which is the choicest fruit land in like State, while the mountain ranges are usually including some of the Coast 11.161, and at present would reach 11.500. Grapes, for raisins and wine, are extensively cultivated. Some of the finest raisins in the San Francisco market come from Yolo county. The shipping facilities of the county are excellent; first, the Sacramento river, along the eastern side of the county, where boast ply up and down.

Railroads run in different directions. The California Pacific vite was cross the south-eastern portion of the county, with a branch to Davisville, north, to Kni; ht's Landing on the Sacramento, the main line runs north through the county, by way of Woodland, up nut Colinss. Along the western portion of the county is tho Vaor Valley & Clear Lake railroad, now completed from Elmira, by way of Vacevulle and Winters. to Medicon, the present terminus. The road will doubtless be extended to Capay valley, with the intention of going up the velley nuto Lake county. Thus it will be seen that Yolo is very centerally located.

Woudhuid.

The county seat, is beautifully situated on a level plain, at the junction of the Cslifornia Pscific and Knight's Lending branch. The town is regularly laid off, with broad streels, which run at right angles. The place is well supplied with arlesian

water. The second largest town in the county is Wloters,

Wheters,
In the south-western portion of the county, where
the earliest fruits come from. The land is all fine
farming land around here. Winters being just on
the edge of the foot-little. The town has a population of some 500, supported by agriculture and
fruit culture, the products being all shipped to San
Francisco, and command the linguist prices, on secount of being early in the season.

Davisvitte,

Is on the line of railroad between San Francisco and Sarramento, and at the junction of the road north. At present the tuwn has a pupulition of 400. Land in this violity is the flucat kind of andly loam and sedimentary deposit from Putah creek. Here are some of the flucat orchards in the State.

### Muillson,

Mullison.

The terminus of the V. V. & L. R. R., is located in a fine, level country, about four miles from the foot-bills. Leanguile is situated in the lower end of the beautiful Capay valley. Knights Leanding is on the Sacramento river, and is the terminus of the road from Woodland.

Cuch ville

Hus some 250 inhabitumis. There are a number of smaller town and precincts in the country, such as Buckeye, Blark's, Cultouwood Canyon, Capay, Charksburg, Dunngas, Eureka, Enterprise, Lifferson, Putati, Pine Grove, Willow Slough and Yolo.

### YUBY COUNTY

YUBA COUNTY
Has an arm of 396,410 acres. It is but partially dependent udon its agricultural resources, and cannot in classed as an agricultural county. Less than one-third of the soil is susceptible of profitable cuttivation; the remainder is devoted to grazing, and is rated as tumber and mineral lands. The western portion of the county lies in the valley, and is chiefly devoted to wheat, barley, fruit and vegetable



leet high

farming. Large quantities of pointies are raised along the Bear river bottom, in the southern portion of the country. There are, at present, four ateam sawmills in the country. From the best in formation we could get, white among the people of Ynba country a short time ago, we estimate the standing saw timber at 12,000,000 feet.

ing sew timber at 12,000,000 feet.

Marywttle.

Is situated at the junction of the Yuba and Feather rivers, and has always been the seat of justice of the county. The commodons, substantial brick hierars blocks, the neat frame buildings, and the heautiful abaded streets all give the city au appearance of having been long established. Fow towns in California have suffered more from coodagration and floods than Marywille.

It has at present a white population of 5,000.

When the distributed,

Is a shipping point for grain, hay, vegetables, potatoes, etc. The lown is in the center of the finest springly portion of the county. Wheatland has a population of 650.

has a population of 650.

Cramptouville,

Up in the mountains, in the eastern part of the county, is an old mining town, which had its rise with the opening of the mines in 1852. The town still orjoys a fuir local trade, and possesses several stores and a good lately, where all stages stop. The town has a population of about 300.

## Sometheeltle,

Is located on the upper Yuba, eighteen miles above Marywille. The other towns in the county are Strawherry Valley. Brownsville, Oreenville, Thubuctoo, Sucker Flat, Rose Bar, etc. Yuba county had a population of 11,276 in 1880, and it has about the same at the present writing.

## BIG NUGGETS.

A few days since Charles Phelps found in his hydraulic claim at Washington township, some nuggets the eight of which would make a fortybiner feel homestek. There are three of them varying in value from \$190 to \$100 each, and they are worth in all between \$400 and \$500,—Nevada

## THE ACCIDENT INSURANCE COMPANY

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ALPHEUS BULL, Vice President. E. W. CARPENTER, Asst. Secretary

15

H

## METHODS OF REDUCTION FOR COP-

PER ORFS.

In the reduction of ropper orea various systems have from time to time been adopted, the method being subject in part to the character of ore worked and general oxisting conditions. For many years the husiness of amelting copper ores has been carried on almost exclusively at Swansea, South Wales, near the mines of formall and Devon, ores helug shipped to this point from all parts of the work. Until the past decade had little was known of the great resources of the Pacific States and Terribories in copper. Some developments had was known of the great resources of the Pacific States and Territories in copper. Some developments had been made in various parts of the country of a most promising nature, and much meany spent in reduction works, based upon former methods of working, but the attempt in infroduce the systems and practice of theold world in the new, to this as in many other things, was attended with disastrons faiture. The new conditions were not suited to the new, to this great of things.

world in the new, to this as in many other things, was attended with disastrons faiture. The new conditions were not suited to the old order of things.

In this emergency Messrs, Rankin, Brayton & Co., of the Pacific from Works in this city, a firm representing the most advanced these of modern practice in everything relating to the mechanical appliances for treating overs, conceived the oldes of applying the frinciple of the Water Jacket Furnace to the reduction of ores, and meditured a series of experiments, with a view of deferning and form of jacket was best adapted for the milling what form of jacket was best adapted for the purpose, as well as the mechanical construction neces-sary to withstand the severe ordest that such work would sairy to will assaud tue severe orders that such work would be subjected to. After some years of persistent and costly experiments, a result was reached which has made a revolution in the mulhods of copper radication, and which has created an industry that has hern a source of vast licrease in the wealth of the country.

Il ts un exaggeration to say that the extraordinary It is no exaggeration to say that the extraordinary development of the copper interest in all our mighting States and Territorica owes its origin and present progress to the invention and general introduction of the Pacific Copper smelter. This furnace has revalutionized all former methods, and made practicable the treatment all former methods, and made practicable the treatment of all olasses of copper ores by a single process, so simple in operation and so economical in results that there is scarcedy a copper mine anywhere, located favorably as to trel and transportation, that cannot now be profit-ably worked. Every successful capper nuterplise in the country, without an exception, we believe, is being operated by this needled of reduction. The manufacturers are now receiving orders for their smelters from nearly every mining country in the world, and the system seems likely soon to become universal. The same system of reduction, it may also be said, has been applied with equal success to all grades and classes of gatens ores.

### A BOOM FOR YOLO.

It does not need a prophetic eye to see that in the near future Yolo county is to experience a veritable boom. The fact is becoming widely known that as far as productive land and a healthful climate are concerned, Yolo county is second to no locality in the State. Negotiations are now in progress by a syndicate of capitalists for the purchase of the Wilcoxon tract of a little over 2,000 acres, situated on Cashe creek, about two miles from Woodland. If the parties succeed in their endeavors, the tract will be divided into small lote of from 5 to 20 acres, and sold to actural cettlers, The whole tract can he irrigated by the Moore ditch, and is one of the most picturesque as well as one of the very richest tracts of land in the State. The street railrond, for which a franchise was granted by the Board of Town Trustees, will very likely he continued out to the colony, and will greatly enhance the value of it. Our county is only yet in its infancy, and those who invest in real estate hero now are among the wise .- Yolo Democrat.

## FOR SALE.

## FINE RESIDENCE

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Also one of 9 rooms on Folsom street, between Twenty-first and Twenty-second.

Twelve lots in Bay View Home-end Association.

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### GROWING APPLES

A correspondent of an Eastern journal recently remarked that Southern California was coming forward with apples so fine as to challenge the admiration of all beholders. On this subject the Santa Ana Herald recently said:

As large and finely-flavored apples are now raised in the Santa Ana valley, particularly in the Nowport district, as can be found anywhere in Oregon, A quantity of applea were exhibited here, some months since, grown by Mr. J. H. Moesser, of Newport, which would have made an Oregon man turn green with envy. There will be a time, if it has not already arrived, when an apple orchard of choice trees will pay full as well, if not hetter, than an orange orchard. We helleve in diversified fruit culture, as well as agriculture. It is a mistake to put one's land into one product alone, as all experience has shown the fallacy of such a course. It is a fatal mistake. It has been conclusively demonstrated that the Santa Ana valley will grow as deciduous fruit as any part of the country. and there is always a market for good fruit and always will be. The fellure of the apple crop in many oi the Eastern States, and not only the failure of the crop but the destruction of the trees by the severe weather, will make it possible to ship our and apples to Eastern markets with good profit.

Large quantities of fine apples, the product of our valley, have been shipped into the Arizona market the past season, and probably brought a fair profit. The finest kind of apples, apricots, es, pears, prunes, plums and figs, in addition to all the citrus fruits, find in the Santa Ana valley their congenial home, and it would be well for all those engaged in fruit onliure, or those who intend



The Sentingly Culaveras Grov

to engage in it, to consider the advisability of diversifying their products. We are satisfied that it would pay better.

### A DISTINGUISHED VISITOR'S IMPRES-SION OF CALIFORNIA.

Gen. Albert Pike, who is now vialting our State, recently said, in the course of an interview with the deditor of the Examinar, that 'will the utilization of the great lake and other water resources of the Sierras, California is capable of a development now undreamed of. Sho will be equal to Egypt—yes, a half dozen Egypts. Every foot of land in the San Lecture Valence 1. Josquin Valley will receive continued fertility, and yield the heaviest crops. The develodment of this country must remain comparatively scanty until your incomparable valleys are fattened by the copiyour incomparable valleys are fattened by the copious and unfailing water supply ready to pour down upon the inviting plains at the solicitation of energy, skill and capital. It will be done, too. There are untold fortunes in these enterprises. I was born fifty years too soon. I would like the pleasure of seeing and taking some part in the grand thinga that are to be accomplished within the next half century. Water will do astounding work on this coast. Sometime the Government will make Do Lassena' incision through Lower California, and Lesseps' incision through Lower California, and rnn the waters of the Pacific into the great Arizona desert. The climate of that region, through the conversion of that terrible smid-waste into an in-land sea, would be all changed, and the country would be most, rainy and fruitful."

## LOUISVILLE EXPOSITION.

J De Burib Shorb has been elected to attend the Londwille Exhibition with the exhibit from Southern California.

### A LARGE IRRIGATING CANAL.

The following is from the Yolo Democrat, published at Woodland:

Work is being pushed ahead on the great canal that is being constructed to irrigate a vast tract of dry land in Merced county. The tunnel through the bills, about five miles above Merced falls, where the dam is being built, is nearly completed. and as soon as it is finished several hundred men will be put to work widening the old ditch. The main canal is now finished, and those who want to use the water have only to cut the splightches. The value of the work can be estimated when it is known that thousands of acres of cheap land have already risen in value \$50 an acre, and lown lots in Merced City have gone up to a price hitherto un-This scheme of irrigation virtually puts 200,000 acres of poor wheat land in condition to raise the finest crops of truits and vegetables. As there is no great local market for the crops, the fruit grown will be of a kind which will find a large

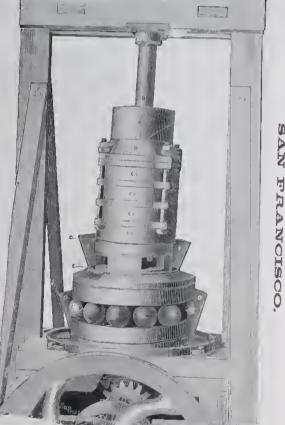
salo when canned, and in a few years there will be many canneries in Merced City, glving employment to a large number of persons. If this scheme fulfills the hopes of its projectors, it will be the commonocoment of a universal irrigation movement that will transform California from an agricultural State of large farms and small population, to a garden State of small holdings and large popula-

## EDGE HILL VINEYARD.

Through the courtesy of the proprietor of this colbrandy hear contrast of the proposition of this con-brand vinepard, we are the recipient of several vari-otics of wine and brandy of the own make, and pro-nounce them, without hesitation, equal to any that we however instel from any country. Was Sciences, have ever instel from any country. Was Sciences, Eaq., has devoted a great deal of his windate time, for years, to the impore hamiling of his whice and brandles. and for pority and quality equats the best. His vine, yard, which is near St. Helens, Naps county, is well worth a visit by the Knights Templar and others.

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We now after with confidence the "Days Cannon Ball, Quartz Mill," having been fully tested by an accordance as it ever can be subjected to. We claim that it possesses must desirable, malifies than Shinpa or any other machine. Comparison with Stamps is always in order. A coordingly were the controlled of the week cord in the control of the control of the week cord in the control of the control

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From time immenural, society has recognized the

From time immenental, society has recognized the necessity of protection from loss of property by the uncontrollable action of the elements. Etra and marine underwriting has for centuries been regarded as an important branch of business, and it has received the closest attention of financiers and publical economists. An lay virtue of the improvement in systems of assurance, underwriting has made such rapid progress that today, in taking risks, the percentage of loss can be oneutrately estimated by accumplished experts, that both the assured and the organizations that take the risks are equally seef from great loss. Yet with all of these nice calculations and practical certainties, usual these nice estentations and practical certainties, people do not like to tasure their property with any company do not like to theire their property with any company unless it has an established reputation for integrity and honerable dealing. Without intending any disparagement of other rouganies in our collect, we rannot being thinking that the long established, well known and highly esteemed firm of Hatchinson & Mano, (whose advertbeaunities opticilish in this number) possess every requirement exacted by those who may desire the protection of an iosatence company from the loss of property. Its advance during a period of something overcloven years, from a small logitaning to a most important business in 'point of conital, seats and reliability. tant business in 'point of capital, assets and reliability in the insurance world, is a fact that speaks for itself. It has been said by a distinguished writer on the insuranno that one of the liest safeguards in underwriting on

HUTCHINSON & MANN'S UNDERWRIT- will continue ateadily in their good work, bearing in mind that though these companies have come here to mild that though these companies have come here to obtain risks, yet they want only the very best hazards to be obtained, and at most edequate rates. The Circular Letter contains from time to time many interesting roummunications on the subject of underwriting from their Eastern correspondents. It silvies its agents to be exceedingly careful in their examination of all risks, and recommends them to be proupt in caurelling all polletes on which they have a single doubt. They are also instructed to be prompt to refuse risks which they may not consider in every respect first-class

### LUMBERING IN BUTTE COUNTY.

The Oroville Register has collected some facts on the lumbering industry, which we present below. But few are aware of the rank Butte county holds in this brunch of the industrial pursuits The mills are situated in the pine helt of the Sierras, at an ultidude of from two to three thous and feet. As a rule they begin logging about the first of May, and contains the fall as long as the sturms permit. Most of the sugar-pine limber is shipped to San Francisco, where it finds a ready In fact, there is a greater demand for sugar pine than the mills of California are ulde to sup A dealer in San Francisco wrote to his agent in Butte, a few days since, that he was addiged to refuse an order from Australia for 5,000 doors, on



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Plants for Goldsard Silver Mills, undrucing the latest and most improved unochtery and processes for base and free ores. Water Jacket Smelling Farmaces for steep latest and copper ores, with new and important improvements superior to any other make. Housting Works, Funging Machinery, Chloridizing Farmaces, etc. appeared the other works of the provided free of the provided free of the provided free of Midning and Reduction Machinery, superior in design and construction to that of superior deliver in complete running order, Mills, Farnaces, Housting Works, etc., in any of the saling States and Territories. Estimates given on application. Send for Hustrated Circular.



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The Pacific Water Jacket Smelters sembrace many features that are entirely new and of great practical utility, which are secured by letters patent. No other furnaces can compare with these for durability, and in capacity for continuous and uninterrupted work.

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are frame structures, is that numerous wealthy companies in the Atlautic States and in Europe should participate so that no one company should, if juitefously managed, be exposed to serious danger of bankruptcy even in a case of a very great conflagration. Hitchinson & Mann have the leading agency on this side of the continent of a large number of toroign and Eastern companies; and we do not think it engageration to say that every one they have represented has been greatly benefitted by their agency.

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The combined capital represented by this notable free and martine agency is all pickaged as a safegural against disastors. This true has went a most envisible reputation for honorable and upright dealing to cases of loss and their promptitude in making settlements. They are doing a large hustiness in our State. They are careful of the interests of flue companies they represent, and fatr alike to all their pairons. Hutchinson & Mann are publishing a monthly Circular

Hutchinson & Mans are publishing a monthly Circular Letter especially for their agents. In each number will be found several well written editorials and carefully selected articles from the ablest journals devoted to free and marlue materwilling. From the copy before us, we learn that the business of the firm under consideration has improved consideraby within a brief parfoil. He set preducts aftering the last thirty days have greatly increased, notwithstanding the fact that many rasks were refused which were not considered destrable, of their from the rate, or one account of the bazard. The firm thanks all of its agents for their energies in behalf of the companies it represents, and trusts floy

ecount of want of stock to make them from The demand for bumber this year is unusually great. Our lending null owner informs us that there has been more inquiry for lumber innong farmers than ever before, so early in the season.

There are eightern saw mills in the county.

these two are run by water power and sixteen by steam power. These eighteen mills give employ men to 380 men, and have a daily capacity of nat less than 370,000 feet of lumber. About half of less unity stronger that a finding the supervision of this is sugary pine. The mills directly compley about 120 oxen, horses and mules, and indirectly, afford employment to many trains that hard freight into the mountains and load back with lumber. -Butte Record.

### A SPLENDID BUSINESS COLLEGE AND TELEGRAPHIC INSTITUTE.

TELEGRAPHIC INSTITUTE.

The Pacific Unaters College, under the able management of Messias Chamberlank & Robinson, is fast winning fame throughout the Parific Coast. This Institution is conducted on therough business principles in every particular. The management are sufficient to much praise, for they have surrounded themselves with an able corps of teachers for every department. Our readers who may desire to give their sons a therough business education, will find it to their interests to avail themselves of the privileges of 10th ably conducted college.

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### THE EGGERS VINEYARD.

The tract of land called the Eggers Vineyard contains to acres, and is located about fice miles north cange to acree, and its located about nee miles north-case from Fresno. It was purchased in 1898; from that time to 1880 the sole product was grain and bay, but that, owing to the uncertainty of the rain, was aban-doned. It to beautifully laid out; avenues of Lomhardy poplars lead to different piaces affording drives through the vineyard. It is also partly bounded by poplar trees and canals.

In 1880 one hundred acres were set out in whees, and every year thereafter the acreage was increased, so that, at present, there are about 300 acres in bearing

that, at present, there are about 300 letters in observed in our vines. There are afficen acres of choice fruits capecially adapted to the climate, and i wouty acres in alfalfa; also several hindred acres in grain and hay. The laud has a fall to the south and west of from tento twelve feet to the mile, otherwise it is level, with no mounds or "hogwallows" to interfere with successful. oultivation. The fact of it being so, makes it feasible for thorough and systematic irrigation, and at the same time preventing any water remaining on the land an stagnating there, thereby giving the subsoil its proper moisture and keeping the surface soil dry, which, as is well known, are the requirements for the success and

maintenance of a vineyard.

The sell is a light, saudy leam, perons and containing the mineral elements essential to the production

of fine who and table grapes.

The vineyard contains the following varieties of grapes: Zinfandel, Burger, Blave Elben, Malvahalas, Mission, Folle Blanche, Misscatel de G. B., Muscat of Mission, Folie Blanche, Miscatol de G. B., Muscat of Alexandria, Sectless Sultanas, Thuturier, Flame Tokay, Feherzagos and Charbaneau. These are planted in checks or squares, from two to eight acres each. The vines are placed eight by eight feet apart, some nine by olno, but the first-named distance has been considered. adopted by most of the choyardists,

The Zinfandel grape appears to do exceedingly well.

These vines, now three and a half years old, are loaded down with from 25 to 35 bunches lo a vine. The Folle down with from 25 to 35 onnehes for a vine. The Foundation Blanche and Musents are chiefly used for making raisha, not being suitable for dry whos, mostly on account of the Museat flavor which they contain. The orchard contains some of the best fruits specially adapted to that ethicate. The alfalfa, on an average, bears about six tons her acre every year; it thrices well and never fails in producing a good crep. The turprovencents on the place are: ilwelling house,

wine cellar, distillery, cooper shop and other out-houses. The whiery and distillery are spacinis buildings, constructed of adobe, sin-dired bricks; the walls are twenty-six and one-half inches thick and about twenty deep high. The difference of the temperature in the cellar from that outside is about twenty degrees, so that a cool and refreshing spot can always be found, although the weather may be very warm. The machinery contained in these huildings is of the latest and most improved that can be produced. The steam crusher is capable of cruelling be precired. The stram crusher is capable of embling 125 tons of grapes per day when run at its full capacity. The atorage capacity of the cellar is about 200, 000 gallons of who. In connection with the distillery is a winduall and a large tank. An arterian reel of 125 feet in depth furnishes an abundant supply of good clear water for drinking purposes, and also for use in the distillery. Last year there were made about 30, 000 gallons of wine and 3,000 gallons of brandy.

Grapes were purchased at this place, from \$20 to \$25 per ton, according to kind and quality. Museat grapes

per ton, according to kind and quality. Muscat grapes do not bring so high a price at the cellar as wine grapes, wing to reasons heretolore quentioned

wing to reasons heretolore mentioned. The irrigation of this vineyard is carried on by means a canal, the water of which it taken ontof the Kings river and Presno Canal Company's ditch which runs to the north of this tract. After the water is on the land, lateral diliches convey it to places intended to be watered; these form a network all over the vineyard and allow a speedy and complete irrigation at any time. The water sumply being shrupfall, the form of a The water sumply being abundant, the fears of a drought are thus allayed by this system of artificial trigation, which is equally as good and more reliable than periodical and uncertain rainy seasons. The land can be either submerged or shaply irrigated, as the case may require. Here simply irrigation has an awered all purposes so far, still when submersion must be resorted to, it can be easily applied,

NORCROSS & CO.

The old and well-known house of Norcross & Co., was established in the year of '49 by the present sentor member of the firm, Col. Dantel Norcross. and stands at this day pre-embertly the head in their peculiar like of business on the Pacific Slope. Some of the most elaborate and magnifecent continues for the members of California Commandery, No. 1, K. T., have recently been manufactured by this house, excelling anything clase ever heretofore attempted, as will be seen in the procession of the could ing Conclave of Kuights Templar procession of the coming Conclave of Enights Templar In link city, during nest month. They are also manu-facturing ologant and superior outlist, of the regulation siyle, at less price than can be imported from the East. This branch they have easile a specialty, in which they have proved a perfect success. Odd Fellows' regallos of the most eagulate designs, in embroidery and work manship, are also a leading festure in their manufac-

Paraphernalis of every description to to be found, in this old established house, of their own manufacture, in quality much superior to Eastern importation, and at equally low primes

Another branch of Industry is the insunfacture of Another branch of Industry la the manufacture of dags and bauners; in this line of business the boune has become justly celebrated for the atyle and character of the many heautifully-nesigned bauners and flags furbished by their establishment. Army and Navyembroiderica are executed in a highly artistic manner, and everything pertaining to initiary or maval goods, arch as awards, belts, shoulder kinds etc. etc., any infound at the phonoir establishment of Danhal Norcross & Co., Masonic Temple, No. 6 Fost St., San Francisco.

## THE FIREMANS FUND INSURANCE COM-PANY.

There is an Instinctive desire on the part of all who seek protection against loss by fire, to be certain that seek protection against loss my nre, to occurant with insurers are themselves rollable, and strictly follow the rules governing honorable underwriting. The most vital points, that call for consideration, are absolved security and the actuality of obtaining prompt and fair settlement in the event of disasters occurring. It has often been remarked by those who have given It has often been remarked, by those who have given the subject careful sitentilon, that there is no position in the commercial world, which requires established integrity, executive shiflity and financial skill, more than the conduct of an insurance company in the management of its business. To the assurers, the community looks with that degree of confidence that renders the slighest deviation from siriel integrity, in the ac-consulation of risks, as great a crimons the abstraction of funds deposited as a sacred trust. The position ocof funds deposited as a sacred trust. The position oc-orphicd by our insurance interests—their soundness and strength—are elements of as great importance as simi-lar considerations in egard to our banking institutions. When persons possessing these faculties, having been tried by long intercourse with a community, tender their services and the good offices of the companies they represent, they should be rewarded, for their fulci-tity to the great trust committed to them, by an ex-tended patronage.

In this connection, we giadly call the attention of our In this connection, we gladly call the attention of our readers to the advertisement, in another cotunn, of the long-established company which heads this notice, whose judgment and discretion, to taking risks, as well as honorable dealing in all trusts reposed in them, have wen an cuvisble reputation among all classes. The Firemans Fund Insurance Company is the oldest

as wettes the wealthlest organization of the kind on the Pacific Coast. Its carrer, during the last two decades, ls a through and complete history of the insurance business or California, it enjoyed minterrupted pros-perity until the great Chicago fire occurred, in 1871, when li suffered a loss of mearly \$600,000, a greater sum than Il suffered a loss of nearly \$600,000, a greater sum than lise entire capital. The diffractors leveled an ussessment of 50 per cent, is be paid at once, which enabled the company to meet every hability. The same general polley was pursued when the company suffered another severe loss by the great Boston conflagration a year later. To meet this emergency, \$200,000 were obtained by reducing the capital that much.

by reducing the capital that much.

Out of the five California companies taking risks, in the Atlantic State, at the time of the Chicago diseaser, the Firemans Fund was the only one that remained in the field; and for more than ten years thereafter it was the only representative of California underwriting cast of the Rocky Mountains. During that period it paid losses aggregating many times its capital. By its noble conduct this company has carned a reputation for integrity which has placed it in the very frent rank of underwriting. We congratulate the company upon its well-carned success. D. J. Staples, the President of the Firemans Fund for staken years, is a California pioneer. He is recognized us a man of trustworthy character and capacity. His indomination courage subsequent to the great Easiern construction, to which we have alluded, contributed, in no small degree, to the success of the policy then llagrations, to which we have alluded, contributed, in no small digree, to the success 4, the policy then adopted by the company under his management. For the last seven years be has here President of the San Fractises Board of Finderwriters. Thomas S. Chard is the general manager, in Chicago, for the Atlantic States. By his judicious management of its atlairs it may be trutfully said, that the company has been a gainer, on the Eastern slile of the continent.

The semi-annual statement of the Flremans Fund hisurance Company shows an inneually healthy growth of business, the gross preniums for the past six months being \$523,140 ts, as against \$421,320 ts written during being \$5.23,140 t8, as against \$422,320 18 written during the corresponding item last year, a gain of over \$100,. 900 on the six months' business, and showing their gross premining, a! present, to be averaging aver \$1,000,000 per year, Placing the company, as regards the volume of husiness transacted, as it already is in assets, considerably in adeauce of any other company west of New York Stale

As this is the first year that the company has p the militon dotter line in premiums, it is evident that it has reserved this new departure until the Conclave year, out of compliment to the Knights Templar.

## SOLANO'S GRAPE FIELDS.

A Solano county farmer informed us recently that, in his opinion, the grape yield in Sohme was more per acre than in any other county in the State. One reason for that is, that raving to the peculiar climate with which we are favored, it is not necessary to prome cross up high from the bot-tom. The testimony of Mr. Briggs is, that the hirgest and best clusters of grapos grow close to the ground. In the coast countries, and other countres with a humid atmosphere, it is wecessary he prime high from the ground, in order to give a good circulation of sir, and successfully leattle with milldow, ldight and fags. The commission merchants inform use that the Sidano county wine grapes are the most desirable offered in the market, from the fact that they contain more succlauring matter than those from advother section. - Digun

## A COMPLETE GROCERY HOUSE.

The grocery house of Messrs. Lebenmann, Goldhull The grocery house of Messrs, LERENHAUM, GOLDHUM, & Howen, 428-432 Fine Street, to the most through and complete in all its appointments, of any tionse in tide. How of husdiness on the American continent. This may sound like very high prints, and it is, but true, nevertheless. We assert, without fear of successful contradiction, that no other grocery house in the United States has anch, a variety of preserved deliberates, from all parts of the world, as this.

1883.

1883. YOSEMITE. GEYSERS.

GREAT REDUCTION IN TIME AND EXPENSE

FOR SIXTY DAYS DNLY.-

ROUND-TRIP TICKETS, \$55, \$50 AND \$37.

### YOSEMITE VALLEY

Is and will over be the marcel and delight of all who have seen its matchless beauty and majosty Much has been written descriptive of Nature's groutest had livede, and yet no one has succeeded in conveying an adequate idea of its presentant grandlem. In bed, its charms much really be seen as felt, for it is an absolute fact that neither pencil nor brush, nor photographic process, can give then

felt, for it is an also different that first is presented by the first and most impressive view of the stability protection.

Standing upon "Inspiration Point," the tourist obtains the first and most impressive view of the valley, one that will remain mediaceably stamped upon his memory. From this lodd promoutory the eye falls first on "El Capitan," the moment of rocks and the most matchless pace of masony in the world. Then upon the beautiful "Bridal Veil Fall," "Cuthedral Rocks," "Three Beachers," "North and South Louis," and many other masses of perpendicular granter, unjectically lifting themselves to the henvous. The view from this point along is ample recompanie for the trip, and in the elegant caviles and bekind the fast horses of the stage company the journey is delightful.



SENTINEL ROCK, 1,500 FEET BIGH.

THE ONLY BOUTE WHERE ALL POINTS OF INTEREST OAN BE SEEN WITHOLT BEING OBLIGED TO RIDE ON HORSEBACK.

By a new arrangement inaugurated this season, passengers can make the

### TRIP IN FOUR DAYS, ROUND

After leaving the railroad, Taktas as the VALLEY, The BIG TRIES AND AL FORMS of De-TRIEST. This is done by leaving the valley the marring subsequent to their arrival, after cisting Mirror Lake, riding up the trail to Glaciar Point. Theree, instead of going back the trail (a slow and unconfortable process) they will be there in stages along the near Tampake Road skirting the loces edge of the ealiby, crossing Braila Vell Prock abace the full, and back to Clarks the same they; thus utilizing the time by traceling homeword and rioring the valley at the same time. This trip is a most enjoyable one, and affords every opportunity of socing the sights from the stage instead of on horse-lack, as heretofore.

## MARIPOSA GROVE.

A very important feature in the Yesemute trip is a cisit to the Big Trees the giants of the forest. The Mariposa Grove, from which accompanying cut was taken, is situated a short distance from Chirks, a station on the read, and is cristed by all who go to the calley. The stage read winds through and mound it so us to take the rising crey near to all the largest trees without beging his sed. There are even 600 trees in this grace, all reaching a size that is inconcercible to one who has never seen them. The "CHOZZIA TILAY" it 63 feet 7 inches in circumference, and some of its branches are fully 6 feet in diameter. Prof. Whitney, in his guidedook, says this is by far the largest grave, and contains trees of greater circumference than any other. No traceler in Chifornia should consider his visit complete until be has seen these gignite mounchs of the monds. Second only to Yesemila, they are comberful in their horizing magnificence.

ALL YOSEMITE TICKETS GOOD FOR THE ENTIRE SEASON AND OVER EITHER MADERA OR MILTON ROUTE, AT PASSENGER'S OPTION.

-EDR TICKETS TO-

# YOSEMITE,

TAHOE, GEYSERS, LAKEPORT, AND CALAVERAS BIG TREES,

-APPLY TO-

SAM MILLER,

NO. 2 NEW MONTGOMERY STREET, S. F.

Established by Daniel Norcross in 1849.

## NORCROSS & CO.,

MANUFACTURERS AND IMPORTERS OF

## REGALIA, PARAPHERNALIA, ETC.

FLAGS MASONIC, ODD IT LLOWS, DRUIDS, KNIGHTS OF PYTHAS, BANNERS GOODS, A O. U. W P. O. S. OF A. ORDER EASTERN STAR, RED MEN, AND ALL URDING des, Tewels, Swords, Costun Flags, Hauters, Seds, Bab-lot Boxes, and MILITARY ALL ARTICLES, NEEDED FOR Ecciety Purposes

S

NO. 6 POST STREET.

Masonic Temple,

San Francisco.

PRICE, 83,000

## TRIENNIAL CONCLAVE BADGE! GROCERY HOUSE!



THIS BADGE IS INTERNED TO BE WORN BY Ruights Templar and their Ladies during the coming Triennial Conclave of the Grand Encampinent of the United States, and the preserved thereafter as a suggester of the occasion. The low perice at with a they are furnished (Tiree Dallars) places them within the means of all, and they are not only ornamental test useful as a means of recognition. They can headtained il as a means of rece the manufacturer,

D W. LAIRD.

San Francisco Jewelry Manulactory, 27 POST ST., Near Masonic Temple,

r from the Recorders of the two Commanderies in this city.

Watches, Jewelry and Diamend Work, Budges and Medala For Nair and Made to Order. Watches and Jewelry Repaired by Skillful Workinen.

-F EN EE-

## VINEYARD LANDS

FOR SALE!

With an Abundance of Water for Irrigating Purposes.

IN TRACTS OF FORTY ACRES AND UPWARDS.

Situated live miles northeast of Fremo, and adjoining the Celebrated Eggers Vine-

PRICE, \$40 PER AORE, WITH WATER.

One-third Cash, Balance in One, Two and Three Years, at Nine per cent. Interest.

EGGERS & CO., 214 California Street,

SAN FRANCISCO, CAL

THE LEADING

VISITORS

WILL FIND AT OUR HOUSE THE host assorting at 07 delication to he ob-tained elsewhere in the commercial world.

TO RESIDENTS OF THE PACIFC COAST AND GROCERS

We Offer Superior Inducements to the Trade

-AS ALL OF OUR-

## Fancy and Staple Groceries.

ARE IMPORTED BY US DIRECT.

TO THE FARMERS AND FAMILIES Our Prices are Unequaled and Quality of Goods Unsurpassed.

## TO EASTERN VISITORS

We would Call especial attention to

LUNCH GOODS, OVER-LAND BASKETS

## CALIFORNIA WINES

of the Purest Quality, which we ask you call and laste. Put up he packages suitable for Kanaly transportation.

PRESERVED DELICACIES FROM ALL FOREIGN COUNTRIES.

Lebenbaum, Goldberg & Bowen, 428-432 PINE STREET,

Lebenbaum, Goldberg & Co., 1447-1449 POLK STREET, S. F.

PRESCOTT & CO.,

## Queen City Market,

HOW LANDS INCREASE IN VALUE.

We publish the following from the Stockton Independent of recent date, for the purpose of showing how it pays to invest in hard in California: A Easten, the well-known furniture dealer of this city, sold his ranch Monday. The tract consisted of 1500 acres, and is situated twenty-two miles southeast of Stockton, near the John Jones Home place, and sold for \$45 an acre, or in all, \$65,500. Nata Harrold of this county was the purchaser, and the price poid is considered not too high. Ten years ago land in the same section could be purchased at the low pure of \$15 pur acre. Such sales set one to thinking. Why didn't I invest the \$2000 I possessed a few years ago in hards around the city of Stockton, instead of jutting it into a corner grocery, is one of the first questions that will be asked. It could just as well have been done and money made, when the corner grecery has barely hold its own. Another question Are there not now good apportunities for men to invest in lambs that are lound to increase in value as each year rolls around? Lands a few miles from Stockton are all the time becoming more valuable, and the men who are now 40 years add may become comfortaldy situated fin aicially by the time they are 50, and perhaps sooner, by investing their money naw. The history of Paliforms would seem to prove that no investment in hand, whother it be tide lands, rich valley lands, chapacral lands or mountain sides, can be ered other than as a wise move. To men of limited means the fact-hill lands of California offer splen-



EL CAPITAN-3, 100 feet high

did inducements. During the pist ten years thousunds of pursons have made themselves pleasant and valuable homes in the foot-hills of the Poest Range or of the Sierra Neva las, and there is room for thousands more. Nature and reasonable indus-try perform wonders on these foot-hill farms in two or three years. Nature in California performs won or three years. Nature in California performs won-lers that seon like the work of magic. The each valleys became covered with a mass of waving grain; the sloping hillsides are rich with fruit, and the steep sides of the canyons produce immerous varieties of Un richest grapes, while everywhere rire flowers and tampled shrubbery, and succellent grasses paint the picture with green, and yellow, and purple colors. Poor mon in Stockton, or any other city, who only possess a few hundred dollars, mmy all possess productive hand in sufficient quan may an possess prometive man in summent upon tity if they will, and in many cases that could be mentioned the first crop has paid back the whole sum invested, or the full price of the farm. Doubtless Mr. Easton never discovered that he would receive so large a sum for the tracts of land has been seed. So with a been complex of near he has just sold. So with a large number of men he has just sold. So with a large number of them in this country and section of the State generally, they never dremned when they just all their money on a runch, with the balance secural by a mort-gage amounting to a thousand or two, that they would be absolute owners of the property in two or three years, but such cases are numerous.

## VISIT THE CALIFORNIA MARKET.

AMERICAN BEEF, VEAL, MUTTON, PORK AND CORNED MEATS OF EVERY DESCRIPTION.

ALSO IMPORTED SO:
Cholcest Enstern throws, Bacon, Land and Foreign Sourages of all Kinds.

CORNEO BEEF AND PORK FOR SALE BY THE BARREL.

1164-1158 Market St., and 6-8 Taylor St.

### THE HARDY OLIVE.

A St. Helena correspondent, who is familiar with alive culture in Europe, writes to the Call, of this city, as follows:

In the lottom hand of the Napa valley the writer took phoasure in observing how hardy a few olive trees, from which the fruit (now in the shape delicious pickles) was guthered in January, with the thermometer down in the twenties, stead the ice and snow of the last extraordinary winter. A water pape at the feat of one of these olive trees caused a thick crust of ice to form, not thowing for days. The noble tree seems to be better for it. Other kinds of trees suffered; the frosts made several victims near, but no dive trees succumbed. This proves that the native olive tree, for such now is the variety planted by the Spanish priests a hundred years ago at their Missions, is thoroughly able to second the care of the planter in putting its shoots into proper soil and Not rich soil, but mosture in substratu, is what it requires; stones on the surface are no drance to its prosperity.

In view of the expectation that alives will in a few years form an important item in our productions, a few facts in relation to their market values may prove interesting. The real value of good commercial dive oil, by the cargo or in consideralde quantities for exportation, averages \$180 to \$200 per ton, with casks, free on board. This brings the pound of oil to about nine cents, if placed in competition with other oil-producing countries. Allout ten pounds of olives being re quired for one of oil, the value of one pound of olives is less than one cent. Culculating values by the price of the imported article arriving in bottles, being surcharged with duty, freight, commission, etc., and being the price governing the California market, the result is much more satisfactory to the producer. But in making up the budget for the future, and arriving at the figures at which olive oil will probably sell at wholesale when we have to depend on an export market, planters will ask what is the vidue of olive of in the great shipping centers of Enrope, and what is the lowest price at which it will pay to plant olives! In fixing the cost of an olive plantation it must be remembered that soil can be utilized that, from the protuberance of rocks or other conses, is maccessible to the plow; that the trees require little cultivation; that the oil is an article that can be stored and becomes more valuable by Thus being free from the inconveniences that attend unlinary fruits, all is a safe investment when produced in superalumbance, and over-production is out of the question, especially in a country whose population increases as rapidly as in the United States and consumers are rapidly growing in manthers.

## MINING MACHINERY

We would call attention to the advertisement of the Pacific from Works, Rankin, Brayton & Co., of San Fran-cisco, in another column. This is one of the oldest and most noted establishments in the country. They have most under same the continuous of the continuous and their experience in the business runs through the whole his tory of mining on this coast. The establishment as very extensive one and thoroughly equipped to all the constructions and informative equipped to all the channel appliances that the country affords, and the products of their work may be found in nearly every until ing country of importance west of the Rocky Mountains. The works have long been noted on the Pacha Coast for the superior character of their machinery, and the many valuable improvements they have made in the various mechanical appliances which have contributed so much tosuccessful mining. Their Smelting Furnaces for both Galena and Copper have revolutionized this branch of business, and added immensely to the value of this class of mining property. Their Holsting Works are noted for their convenience and safety, their Stamp Mills for effective and economical results.

Particle purchasing from the firm here mentioned as

Parties purchasing from the firm here mentioned can have every assurance of honorable dealings, and the benefit of their long experience and intimate knowledge of the business in all its branches.

## A BEAUTIFUL TOWN.

One of the prettiest places in the Sun Bernar dino is the sing little retreat of Crafton. press exempionists of two years ago were gener press oxemisionsts of two years ago were generously entertained here by the proprietor, Mr. Crafts and all were highly delighted with the visit. The lands connected with this place will soon be sought for vineyards and orange growing. They are very favorably located, within the reach of are very inventity focuted, within the reach of good writer, and, in connection with Redhards and a small intervening tract, will, in all probability, eventually form connected settlement fully as ex-tensive and equally as thrifty and well fitted for orange and raisin culture as any other locality. Cor. Rural Press.

## PRICE OF LAND.

There was, says the Butto Record, 1,810 weres of the Furwell ranch (Butte county) sold hist week for \$68,000. This is equal to \$42 per

### INQUIRING AS TO OUR CAPACITY.

Recently Dr. Max Seering, Teacher of Political Economy in the University of Boun, has been visiting this State, and we believe is still upon this coast, upon a mission for which he is accredited by the Emperor of Germany. The purpose of his visit is to ascertain the capacity of America to produce meat and brendstuffs for Europe. If she can do so, and deliver the same in Europe to advantage, it will be useless for Germany to continue in agriculture, and other industries must command the attention of her people. Prof. Seering is a geutleman of cultured intelligence and keen observative powers. He is not willing to trust to cold statistics, but goes into the leading sections of the United States and the Canadas to see for himself, t ascertain facts at the fountain heads, and that he may observe conditions and examine witnesses. In California he confessed that he was not only surprised, but quite amazed at the capacity of the soil, and astouished at the proof of the fact that the State produces now one-sixth of all the wheat exported from the United States. He will go back to Germany with full notes of inquiry and response representing the best intelligence in this State on all topics relating to soil, productiou, stock-raising, etc., and incidentally will be well informed upon all industrial topics relating in any way to California. He leaves the State to make a leisurely trip along the line of the Northern Pacific Railroad, and thence to Winnipeg, and will examine quite thoroughly into the food resources of Oregon, the northern Territories and of British Columbia. to the coast with his credentials indorsed by George B. Loring, United States Commissioner of Agriculture. In this State he was given letters of introduction to a large number of prominent agriculturists, well-informed citizens, practical stock-raisers, investors and representatives of capital. The significance of such a visit is found in the fact that the products of America are becoming important factors in the internal economy of Europe, and this leads to unlimited suggestions and opens lines of thought and speculation that deserve distinct and elaborate treatment. -- Sucrameuto Record Union.

## IMPORTATION OF ORANGES.

Edwin T. Eurl, of San Francisco, who has been engaged in the fruit shipping husiness several years, visited Riverside a few days since. He had just returned from New York where he spent some time investigning the orange market. He said the people had no idea of the immense amount of fruit shipped into that and other Eastern cities from the Mediterra-A single steamer would bring in 25,000 boxes of oranges, all of which would disappear on the market like dew before the morning sun. It must be remembered also that the entire Riverside crop of oranges would not make, the past seasou, a single steamer load. He stated that there were more oranges lauded on the Atlantic Coast, in a single day the past season, than there were raised on the Pacific Coast the past year. All that the market requires is a reasonable price for the fruit in the orchard, and a fair rate of freight to the northwestern States. These two points reached, California can not raise enough oranges for the western market .- Riverside Press.

## TABLE MOUNTAIN CURIOSITIES,

In drifting recently in the old gravel channel of the Empire mine last week, Dr. Blutchley found the stump of a pine tree which is buried up 160 feet in the lava. It is about a foot in meter, and is partially petrified, some parts of it being quite soft. The miners found a crevice about an inch wide on the west side of the channel which extends across the top of the drift through the detrital and lava to the surface-a distance of 160 feet. This is known as a certainty, for there are no old diggiuge in the vicinity, and the draft was sufficiently strong to extinguish a lighted candle. When the miners first struck it, it gave forth a roaring noise, as of a waterfull-but, upon examination, they found a current of air drawing up. According to our geological knowledge, this evident crack must have taken place some minutes after the cooling process had taken place, and the molten liva flow had subsided. Dr. Blatch-ley has the honor of opening this virgin crevice. — Tuolumne Independent.

THE RESOURCES OF CALIFORNIA is the hest paner to send to your friends abroad.

### THREE ORANGES CONTRASTED.

Mr. L. H. Washburg, of the Washburg excursion party, presented the Times with three oranges recently, one being a fair sample of the Florida fruit, another coming from Mexico, and the third a Los Angeles orange, not especially picked out as the best of our varieties, but being an ordinary specimen of the average orange sold in our markets. The Mexican orange was juicy and sweet, but lacked flavor, and clearly lacked the analities necessary for long transportation, as it had already begun to The Florida orange was slightly tart, yet rather insipid and very fibrous and "coltony." The Los Augeles specimen had a fine, rich flavor, but was the most scid. It was juicy, had but little pulp, and could have mude the journey from the Pacific to the Atlantic and back here again without being in the least injured. The great failing of both the Florida and tropical Mexican oranges is their inability to hear a long journey. Dealers in New York occasionally have large consignments spoil on their hands when the market is glutted, while uo such trouble is experienced with the Califoruia orange. Judging from the sample tested it is safe to say that there can be little important competition between the fruit grown in the three countries. Each has its season and each its special admirers. One straw which shows the popular favor in the East towards our fruit is the fact that when it is placed side



South or Buil Done

by side with that from Florida it has thus for invariably brought the highest prices.—Los Angeles Times,

## THE FRUIT TRADE.

Few people have a correct idea of the management of the fruit canning business in California. In value it will soou equal that of the cereal production, Last year the fruit trude of the State reached the enormous sum of eight uillions of dollars, or nearly forty per cent. of the value of the entire production of the gold mines. The yield of precious metals is decreasing every year, while the gmin and fruit yields are increasing. It is to the preducts of the soil and manufacturing industries that California wust look for wealth. The grain-producing capacities of the State are known, but its fruit-growing possibilities are only as yet partially comprehended. The investment of capital in fruit-cunning es-tublishments in various localities, is having the effect of encouraging fruit growing adventures. Many farmers have discovered that and many more are country to the conclusion that there is more profit in an acre of orchard or vineyard than there is in several acres of Although fruit raising is only on the threshold of development, last year's marketed product is worth eight millions of dollars! What it will be in the course of another decade remains for the future to reveal,- 1'olo Demo-

## THE BALDWIN!

THE BALDWIN!



## THE LEADING HOTEL OF SAN FRANCISCO, CALIFORNIA.

This Hotel was Completed and Opened in May, 1878, and is Conducted on the American Plan. Over \$3,500,000 having been expended by Mr. BALDWIN in its Construction and Furnishing, THE BALDWIN is the most Elegantly Appointed Hotel in the World. Situated on Market Street, at the intersection of Powell end Eddy Streets, and fronting four principal streets in the business center, it is convenient of access to and from all quarters of the City. Eight lines of Street Cars pass its doors. Hotel Coaches and Carriages in waiting at all Steamers and Railway Depots. Tourists' Headquarters. Special Accommodations for Families and Large Parties.

Prices the Same as at other First-Class Hotels, \$2.50 to \$5.00 per Day.

H. H. PEARSON, Proprietor,

Formerly proprietor of the Cosmorourian, San Francisco-

BRUSH HARDENBERGH, Clilef Clerk.

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PACIFIC COAST LAND BUREAU,

President, - WENDELL EASTON, Auctioneer, - - J. O. ELDRIDGE. vice-Pres. and Gen. Man., GEO. W. FRINK, Secretary, - - - F B. WILDE.

NO. 22 MONTGOMERY STREET,

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Sub Agencies at Each County Seat of the State,

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Agency for Sale and Exchange of Farming Lands. Large Tracts
Subdivided and Sold at Auction or Private Sale.

# IRRIGATED VINE LANDS

In Fresno County,

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## BANK OF CALIFORNIA TRACT,

Near the flourishing town of Fresna, but also hours from San Francisco by railread, and possessing one of the most healthing and delightful climates in the world. Homes for att. 6 out acres of tand divided into farms of any size. A PERPETUAL WATER RIGHT FOR IRRIGATION SOLD WITH THE LAND. Oatsils from the never-failing waters at Kings river. The wine and cashe crop on irrigated land, for it is the most prudicable, the evalor is the only protection against phylocers. The land is level, stightly theired toward the west, and result for time decise using the sold is a rich, sandy for excellent to the control of the section of the control of the section of the section of the section of the control of the section of the sec

It is the cheapest and most desirable lead now effered in this market, and we const comparison with any other land in the State. Sold, with water right and manal to each quarter section, in subdivisions may size, at reasonable prices. Payable one-fifth each, balance in annual installments to sait.

For maps, circulars, reports and letters from resident farmors and vineyardicis, and all number internations

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Or to W. P. HABER, Fresno.

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VINEYARD, WINE CELLAR AND DISTILLERY.

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## Brands of Red and White Wines.

STANDING COMPARISON WITH THE FINEST BRANDS OF IMPORTED

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JANUARY......1883.

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Ospital, psid up, Gold. - - \$300,000 00

Preminus since organization, \$4,155 239 10 Losses, since organization. - - \$1,859,286 64 Assets, Jan. 1, 1883, - - - \$717,156 63 Surplus for Policy Holders. - - 710,860 63 Reinsurance Reserve, - - 172,898 50 Net Surplus Over Everything, . 237,962 13

OFFICERS:

J. F. ROUGHTON	Fraddent
J. L. N. SHEPARDV	lce President.
CHAS R. STORY	Secretary
R. H. MAGILL	ieneral Agent.

## J. D. SPRECKELS & BROS.,

Shipping and Commission Merchants,

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## STANDARD SYRUP,

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Put np in Carrels Expressly for Home Pon-

## EXTRA HEAVY SYRUP.

In Harrels for Export.

At Luwest Market Hales.

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Agricultural Insurance Co ...... New York, \$1,521,630.

...Paris, France, \$6,835,298.

Fire Ins. Ass'n (Limited) ... .... London, Eng., \$1,573,291.

Girard Insurance Company .. Philadelphia, \$1,208,645,

\$573,216. St Paul F & M. Ins. Co. .. St. Paul, Minn.

\$1,048,673. Stamfard Fire Office (Limited) London, Eng.,

\$1,300,000. .....New Orleans. \$418,045.

## MARINE.

The London and Provincial Murine Insurance Company ....Lomlon, \$6,278,362.

La Fonciere Marine ins. Co... \$2,250,000.

Capital Represented. . . \$23,007,160

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REFINED SUCARS, No. 820 POST ST.,

Or Address the Propeletors,

Office: 325 Market Street, Up Stairs. CHAMBERLAIN & ROBINSON.

Jacob Sebram, who was a burber in Napu twenty years ago, and afterwards carried the tonsorial business at the White Salphur Springs during the watering season of that fashionable resort, is now said to have an income of \$10,000 per year from his vineyard above Calistoga. He located there for hencet of his health, and in after years was in the habit of meeting expenses by visiting the Sulphur Springs Saturday night, returning Mouday, thus depending on his harber trusiness to bring in a few dollars. His plack and industry have met their reward, and he now produces a brand of wine which has a value and established reputation throughout California and in many of the large cities of the Eastern States. In speaking of Mr. Schram's location, a correspondent, says: "I remember, very well, passing over, several years ago, Mr. Schram's place before it was occupied all. Had I then been told that a man of industry and economy, by settling there could make a living, I would have voted the assertion the most perfect nonseuse. Yet this intelligent German, by faith and persistent work, has wrought upon that uniuviting tract of land a wonder. He has a superb house and all the comforts attached thereto. He has morefor the barren hill upon which he settled now yields him an unnual income of \$10,000 u year. I wish it to be known, and I am sure of



First Log But in Marlposa Grove.

it, that within the horders of this county there are hundreds of places now lying idle, susceptible of being made as productive as the one I have been writing of. But let no faint-hearted. irresolute man make the effort to build such a home, for without diligence, prudence and hope, he will certainly fail. It is to be noted also that the lands I write of here produce a better wine than the richer valley lands .-- Cor. Napa Reporter.

## BORAX MINES.

The Print says: There is at the present time considerable excitement in Calico District over recent discoveries of borax deposits within a couple of miles of the town of Calico The principal deposits are in the eastern part of the district, and comprise un area of four or five miles signar . Several sales were made last week of borax claims, amounting to \$4,250, and since then, lands hitherto supposed to be worthless, have been located in twenty-acre claims as borax deposits. Several claims located for silver but considered poor, have been prospected for borax, and in some places with favorable results. It is claimed by some that there are large deposits of borax in the district, some of it of fine quality. In one place there is a small mountain of it, and if all the deposits located are in reality borax of a marketable quality, the immense quantity of it cannot fail source of great wealth to this district.

Subscribe for The Resources of California.

## CALIFORNIA DRIED FRUIT.

There are certain lines of dried fruit in which California has a monopoly for years to come. Among them may be mentioned apricots. peaches, plums, pears, figs, prunes and grapes. The following table gives the number of boxes of raisins manufactured in California during the past seven years: For 1876, 40,000 hoxes; 1877, 25 000; 1878, 70,000; 1879, 70,000; 1880, 60,000; 1881, 95,000; 1882, 150,000. Messrs. G. W. Mende & Co., of San Francisco, estimate the production of this State in the commodities indicated for 1882 as follows: Dried peaches, 800,000 pounds; pears, 100,000; apples, 1,000,000; apricots, 200,000; princes, 500,000; honey, 100,000; walunts, 600,000; almonds, 200,000. The sales of California dried fruits, raisine, etc., are jucreasing. The total value for 1882 will reach nearly \$2,000,000. The average prices were: Raisins, \$2 per box; dried peaches 71/2c. per 1b.: pears, 7c There has been an improved demand from all parts of the East for the dried fruit and raisins of California. Sales are about 20 per cent, in advance of last year. There are two or three facts of importance in this business. Poor fruit will not do to dry. Sun-dried fruit cannot compete with the bright, fresh product of the evaporators. 'The work must be done carefully and skillfully, and the fruit must be well packed in neat parcels to strike the eye favorably at first sight .- Los Angeles Express.

## THE STATE'S GREATEST NEED,

California needs immigrants, not only those who come here to spend wealth accumulated elsewhere, and live in our beautiful cities, and enjoy our landscape and climate, but those who have wives and children for whom they must earn a living aud make a home. Our large tructs of laud will besubdivided under the pressure of a large and willing population which demands them for homes. We want a populatiou ot agriculturists, people of rural tastes and instincts, who know how to live on the soil and direct its fruitfulness to their profit and the gian of the State .- Oakland Tin

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Fire and Marine Insurance

Capital, paid in full, - \$200,000.00

Assets, June 30, 1883, \$390,524.06

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A. PELTON. - - NEVADA CITY, CAL.

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It gave the lighest percent, of power [91 02 percent of the public less of the reaction hurdy-guidy water wheels by the blabo Mining Company at Gasse Wellby, consumencing April Suth, 1883. This was the highest percent, over all wheels now in 1888—It was at once adopted by said company. Sond for Price List and Full Particulars.

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## **NEW WOOD SAW!**



### THE LATEST, THE BEST.

The above illustration shows an ADTOMATIC SELF-STRAINING WOOD SAW Fit AME. The saw is strained by means in a Steel Spring secural to the wood end pieces with Meiel Bands. With this divise a saw is per-ceptly and automatically strained at all times. No cross bars or braces are required to give stiffcess to the frame. The space in wood saw fraines usually filled up with such devices is left open, giving the saw greater capacity for sawing large sileks of wood, wide planks or boards. There is no screw straining rod to get out of order.

or boards. There is no screw siralning rod to get out of order.

Price, complete with Pacific Saw Mi'g Co.'s Exira Blade, set and filed, ready to work, each, \$1 50; with their second quality blade, set and filed, ready to work, \$1.25; with imported blade, set and filed, ready to work, \$1.00.

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AGENTS FOR C. B. PAUL'S CELEBRATED FILES.

Planing Knives, Currier Knives, Saw Mandrels, and Saws of Every Description Made to Order.

## THE CALIFORNIA POWDER WORKS. BRASS AND BELL FOUNDRY,



ROUND GRAIN, Bright Glaze, in Iron and Wooden Kegs. SHOT, CAPS, WADS,

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Full Hustman Course. Full Normal Course, Teachenic Course, Linguing Course, Linguing Course, Linguing Lough Linguing Lough Course, Sent postpaid Address: F. R. CLARKE, Stockton,

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RESPECTFULLY GALL ATTENTION TO THEIR NEW ARRIVALS OF

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HRASS CASTINGS of all kinds, WATER GATES, GAS GATES, FIRE HYDRANTS, DOCK HYDRANTS, GARDEN HYDRANTS.

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STEAM PUMP The best and most durable in use. Also a variety of other

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Ourcini Analysea made of orcs, motals, soils, waters, industrial products, etc. Mines examined and reported pnon. Commitations on chemical and metallurgical questions

REST not, life is sweeping by, go and dare before you die, something mightly and and a weak in your line love behind to enough time. For a weak in your control of the cont



HROAD GAUGE.

## Summer Arrangement.

Commonding Wednesday. April 18, 1883, And until further notice, Passenger Trains will leave from, and arrive at San Francisco Passenger Deput (Townsend St., between 3d and 4th streets) as follows:

LEAVE B. F.	DESTINATION.	B. F.
8:30 A. M., 1 9:30 A. M. 10:40 A. M. * 3:30 P. M. 4:25 P. M. * 5:15 P. M. 6:30 P. M. \$11:45 P. M.		6:40 A, M, # 8:10 A M, 9:03 A, M, *10:02 A, M, # 3:36 P, M, 6:00 P, M, \$ 7:50 P, M, \$ 8:15 P, M,
8:30 A. M. 10:40 A. M. * 3:30 P. M. 4:25 P. M.	Principal Way Stailons.	9:03 A. M *10:02 A. M. *3:36 P. M. 6:00 P. M. † 6:15 P. M.
10:40 A. M. * 3:30 P. M.		6:00 P. M
10:10 a M. * 3:30 P. M.	. Hottinett min 1110 to to	6:00 P. M.
10:40 A. M * 3:30 P. M	Watsonville, Camp Gumlail, Aptos, New Brighton, Soquel (Camp Cupitola) and Santa Cruz,	6;00 P 3i.
10:40 A. M.	Soledad and Way Stattons	TidiO P. M.
1 7:30 A, 50		† 843 P 56
*Sunday Saturdays	s excepted (Sundays only, 1' only,	

Commers Strings and the related the second with \$20 A. M. Testin.

SPECIAL ROUND-THIP TICKETS — At Reduced Rates—to Pescadaro, Montercy, Aplos, Sequel and Smile Cruz; also, to Gilroy, Paraiso and Paso Robles Springs EXCURSION TICKETS — Sold Saturdays and on Sunday mornings—pool to return on Monday—to Santa Claia or San Jace, \$2.50; to Gilroy \$4.00; to Montercy or Santa Cruz, \$4.00, and to principal points between San Francisco and San Jose; also to Gilroy Hot Springs, \$5.00.

SONDAY EXCURSION TICKETS.—To either Montercy or Santa Cruz, and return, \$3.00.

Ticket Opprices.—Passenger Depoir Townsond street, and No. 2 New Muniquenery street, Palace Hotel

A. O. BASSETT.

Superimendant.

Asat Pass & Tkl. Agt.

67 SOUTHERN DIVISIONS. To:

For points on Southern Divisions and the East, see

For points on Southern Divisions and the East, see C. P. R. R. TIME SCHEDULE

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## FOR JAPAN and CHINA



LEAVE WHARF CORNER OF First and Brauman Streets, at YOKOHAMA & HONGKONG

Connecting at Yokohama with Steamers for Shanghae

Will sail from San Francisco

COPTIC Saturday, May 51t
ARABIC Thursday, Juno 2811
OCEANIC Tnesday, July 10th
CDPTIC Salurday, July 21s
ARABIC
DCEANIC Thursday, September 2711
COPTCC

Excursion Tickets to Yokohuma and Re-turn at Reduced Rates.

Cobin plans on exhibilion and passage tickets for solest C. P. R. R. Co, to General Offices, Room 74, Corner Fourth and Townsend Streets.

FOR FREIGHT apply to GEO. H. RICE, Freight Agent, at the Facinc Mail Steamship Company's Wharf, or at No. 202 Markel street, Union Block.

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Obthirm andur Twelve years of age, Half Fary Uniter Proy years of age, Half Fary Uniter Proy years of age, Free.

100 pounds of Huggage per full Passengel free, 5t pounds of Huggage per half lass senger, free.

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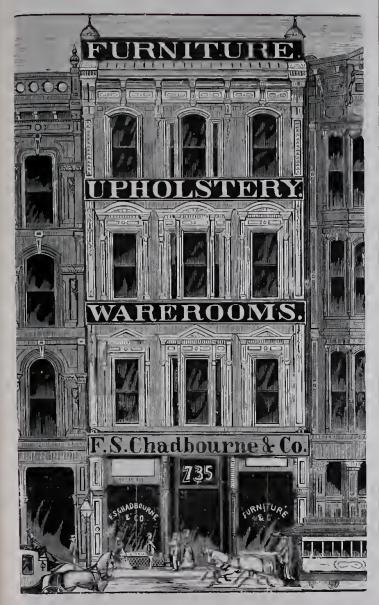
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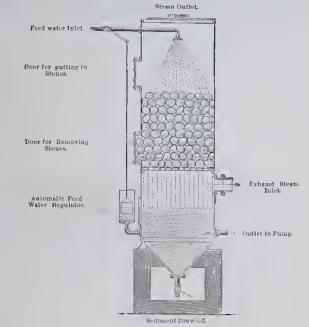
IN AN IMMENSE VARIETY OF STYLE,

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## LLEWELLYN FILTER-HEATER.

For the Prevention and Removal of

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Heals the swater to building point — Frees it from all themical lumprities. Saves from all to 50 per cent of water by roudensation. Prevents the formulou of scale, and saves fully 25 per cent. In fuel.

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WISE people are always on the lookout for character their concrete their earnings, and the provided their concrete their control in preverty. We want much women they and gight to work for us right in their own local ties, Any one can do the work properly from the first start. The business will pay more than ten three son any wage. Expressive outths furnished free. No on who ontages fails to make unoney rapidity. Vou can describe the control of the work for us right in their control of the work properly from the first start. The business will pay more than ten times on the work of the control of the control of the work of the control of the work of the control of the

F. P. BACON, Pres.

## Globe Iron Works Co.

FOUNDRY.

MACHINE SHOP, and FORGE.

Manufacturers and Repairers of all Kinds of

## MACHINERY AND IRON CASTINGS, Hoisting and

Mining Machinery,

## LOCOMOTIVES.

Portable, Stationary and Marine Engines.

## BISHOP'S ECONOMICAL MINING PUMP APPARATUS,

Which does away with Cumbrous Pump Rods, V Bobs and Balance Robs, operating equally well in shafts or inclines; animiting of diffection into distinct workings. Circu invafaruished free, upon application.

MINING HORSE-POWER AND QUICKSILVER FEEDERS. SPECIALTIES.

PATENT AIR COMPRESSORS.

222 and 224 Fremont St., Helwern Honard and Felcom

San Francisco.

### FUTURE OF NORTHWESTERN WHEAT.

Within a few years, the area of wheat-grawing, as is well known, has groutly extended in America. It has been found possible to raise this cereal in the bot nir and soil of California and Texas, as well us in Dakota and Minnesota, The grain requires a good limestone soil, or something equiva lent to it, and with this as a foundation, it will grow from the twenty-lifth to the forty-eighth degree on the Atlantic coast and still higher up inland. Only a comparatively small portion of the United States will produce it, compared with the total area, and that area is gradually becoming It may be sabl, in a rough culculation, that more thin half of the ground suitable for this plant is ulready under cultivation, and that we shall not double what is already grown unless improved methods of culture are brought in use. was therefore, with some apprehension that the trade heard the report a few days ugo that grain was being sent over to Liverpool and Glasgow di-Manitoba and the northern parts of Dakota, which, of course, will include the adjacent portions of British America.

With a view of ascertaining how the venture is regarded by the trade here, a Bulletin reporter called on a representative of one of the oldest Mississippi River, the price of wheat would have gone up all over the world. The food of markind is mow more generally wheat flour than ever before. I can remounder when in the country districts rye flour was commonly used to make bread of, but that is in longer the case. No one senredy cats bread made of rye. The wheat fields of the United States will soon by insufficient to supply the lack in the rest of the world, and I am ghod that Manitoba, and the country north of the Northern Pacific Road are coming to the front.

Another gentleman, on heing interrogated, said that he had knorm of the intention of the Crunalian Pacific to favor the transportation of wheat from the western parts of British America. "The Camdian Pacific Road is not in a strong position. It lacks population. Its tracks traverse a wiblerness, and it must do everything possible to reclaim the waste. Manitoba, from which a shipment was made a few weeks ago, has good natural facilities. Its winters are long and bloak, but its sunners are warm und of sufficient longth to insure the ripening of wheat. That plant only requires three months, and they have much more than that. It seems to be a provision of nature that wild lands, when first cultivated, shall bring forth enormous crops. Manitoba covers 123,000 square

### A GOOD SECTION FOR CROPS.

The following is taken from the Lower Luke Bulletin:

Since the first permanent settlement of Lake county-since the first forcer was turned by the plaw, there has not been what may be called a failure of crops by reason of a drought. However severely other portions of our State may entire for the want of accessary rams, ours hieralways had a supply sufficient to insure a lountiful Though our county is mountainous, "Assisa piled npon Pilion," many of which are snow-capped half the year, yet those hands when not too steep are made highly productive by industry, but no power exists in foun to make a climate or produce springs of waters whose modicinal properties are adapted to the healing of all diseases, physical as well as mental. The following, which we take from the Niepa Co. Viniculturist, published at St. Helena, is the truth in a limited space, and there is not a man, who knows the characteristics of one county, who will presume to dispute it: Lake county, the Switzerland of America, and "the true Rhine District of California," is destined in the near future to become famous not only for its clarets, wines and fruits, but, also, for its many other attractions. Nowhere can be found lovelier

ties for irrigation of garden and orchard, so that let what will happen autside of the county, it is provided for, and its prople have much for which to be thankful.

### RICH SILVER DISCOVERIES

The vast stores of minerals in the foothills and Sierras arithin the boundaries of Fresno county are just beginning to attract the carriest attention of miners and expitalists. During last summer a rich deposit of gabous silver one was discovered on the northerly slope of Mount Raymond near the summat, and about three miles directly east of the Mariposa big trees, and two locations were made by Messas. Wilbughly & Gara. During the somerethe work of opening out the find was prosecuted diligently by these parties, and they had been a body of one measuring 38 feet in width and a depth of 70 feet, showing a high grade of one with a large amount of chlorides. The ore also carries some \$12 per ton in gold. This property was supposed, at the date of discovery, to have been in Mariposa county, but a survey of the county boundaries, at a later day, shows it to be in Freene. We are informed, by one of the parties, that the property is now unler bond to Groupe Hearst, of Sau Francisco, and that the work of



FORT POINT-THE GOLDEN GATE-ENTRANCE TO THE HARBOR OF SAN FRANCISCO.

houses, who proceeded to explain his views. note this movement with pleasure," said he, "and am glad that the area is extending. Formerly we had two principal countries to contend with in growing this grain-Russia and Germony; but the increase in population of the latter nation has resulted in her using most all of her product herresured in her many most in to have produce ne-self. Russin still selfs hirgely. There is, however, a value in having grain come from a large extent of territory. The prices are more stable, as frosts, drouths, floods and insects do not act on all regions alike, and the value is made more uniform. Wheat-growing is becoming tess and less in Grent Britain, to which we export so much. The hand is continually rulmacing in price, from its nourness to large towns and the increased profits from mur-ket gurdening; labor is going up, while wheat for a series of years is almost stationary. At 82 ic bushel it would be a remniscrative grop there; at 81–50, which is about as high next can uttain, the firmer which is about as high as it can uttain, the humor-has a difficulty in making both ends moot. If we were to be limited to our old wheat fields, the grain would go up here. Fields that produced thirty haddels an acre in the Genesco Valley at the beginning of the century, now only miss twentry in a good year, and ten or twelve in a poor year, sonetimes sinking as how as eight. Had there been a limitation of the United States to the

miles, or as large as New York, Penusylvania and Ohio. Throwing away the land not suited for wheat, she ought to be able to produce as much as our three States do, which would be a considerable accession to the ordinary crop. It will benefit Montreal, Quebec and the Allan Line of steamors chiefly, but I see no reason for regret in this. The kernel produced there is very solid and hard, and makes excellent flour. I know but little of the progress of Canadian milways, but I believe that some of the Northwestern States will be tupped partially by them. I notice, also, that direct shipments have been under from Dukota to Ghesgow and Liverpool. Every facility of this sort well stimulate the growing capacity of the Northwest and iverense the power and value of the United States.—New York Commercial.

## A LARGE YIELD.

Alfalfa appears to be the best crop for the land in Los Angeles county, and the hest crop that can be raised in any place for the use of live stuck. The Los Angeles Heraid says: Mr. D. D. Johnston, near Norwalk, has fiftee acres of alfalfa, which hist year yielded two tons of hay per acres ix times during the year, yielding twolve lone anaunily, worth \$8 per ton, or \$96 a year for a hay crop, per

snots for homes than in this county with a scenery filling the eye with all that is gravel and beautiful; it has a climate fully equal to the for-famed "skies of Italy." All the fruits suitable to our climate grow in as great, and in many cases greater, perfection than in any part of the State, not fur distant, when the valleys and hills and mountain sides will be peopled with a hardy, in-dustrious class of citizens, thriving towns and villages will spring up, and where the dense foliage of chemical new covers the earth, the fig tree and vine will lift their broad, bright foliage to the away and bear their luscious fruit. Lasko county contains e numeral springs than the whole of Europe and the time will come, when invalids from climes will resort here for pleasure and health, when the tourist will never have completed his wanderings antil he has breathed its life-giving nir, drank from its crystal springs, and guzed upon meh panoramas of beauty as painter's poncil move yot transferred to ennyons, Busy steamors now plow its luke or float like things of life or its selvery waters, and some the shrink of the iron horse will worken the gelices on "Kometi." The splen-did fields of wheat and larley now growing in this county gladden the hourts of their hicky awners, and bid letimace to the drended drunght in other parts of the State. Numerous springs afford facilideveloping this ore hody will be pushed rapidly' as soon as the materials and machinery can be got on the ground.

Late last fall soveral more valuable locations were made about four miles south of the Willough Mc Gonz mine, which are reported to be much more expensive and the ore of a very high grade. These new fault are producing quite an interest in that part of the county, and capitalists are ultimated in the ground seeking investments, and many who have heretofore claimed that there were no mines in Freene county of any permanent value, are boginning to find out their mistake. Hardly a day passes but we hear of some new discovery, and we are persanded that when there exists such a vest quantity and variety of valuable minerids, as are now being brought to light, we are bound to have a mining boom in Freene county of no insignificant magnitude.—Freene Republicans.

## RICH SPECIMENS.

derome York has just developed some exceedngly rich rook in his lodge in Slug Canyon. The rock shown vs will assay away up into the thousnuls of dollars per ton.—Down's eville Messenmer.



J. P. B. WENTWORTH, Editor and Preprietor,

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bruzen and from ages. It has also had its fictions, metaphysical and positive ages. It is our fortune to live in the positive or scientific, the spirit of which is progress progress progress.

Frogress is stamped on the brow of every trade, profession and industry. It is seen in the munity fold manufactories of the world, on the broad fields.

Agriculture, manufactories, compenses, the trades and sciences are so intimately blended to cooks, game and fish upon which to subsist that the discussion of all. My purpose is to discuss agriculture, with respect to the status it believes as bounded in the trade of the manufactories of the world, and with respect to the requirements of the age in which we fold manufactories of the world, on the broad fields.

The next suppletory act was to plant seed, by



NATIONAL CITY, SAN DIEGO COUNTY, CAL, SCENES IN THE TOWN AND VICINITY,

Address Dellvered by The HON, IRVING M. SCOTT, he Tidorletic Adonot State Fair, at Suc-ramenta, September 1316, 1883.

Mr. President, Lydes and Gentlewer: e world has laid its golden and silver, its

THE IMPORTANCE AND DIGNITY of agriculture, in the rich merchantmen, steam and sail, which infest every sea. We see it in our pule of agriculture, in the rich merchantmen, steam and such, which infect every sea. We see it in our pub-lic schools, the nurseries of civilization and the bullenebs of civil liberty, the adarmment of our times and the incededable blessing to our race. We see it in the happy bomes or numerous as the stars that smile above them at home infraod wherever we go. It is in the age; it is in us, and of us impelling us on.

The origin of agreedture procedes all historic record, and its locality is not known. It is quite certain that it did not preceds the dawn of civilization; for tilling the sed prosupposes a security of rights, beyond the restraints imposed by abould to savage life. It was the observing of necessity for roun in several file is not given to labor me to store up wealth in excess of his inanchiate wants. He turns not to cultivating the held nor to tail, so long

emising his cuttle to trend it into soft ground. causing his cuttle to tread it into soft ground.
When the demand upon his energies became too
great, or the soil too obstinute to adont of this
primitive nothed, genius came to his aid and invented the plough, an indispensable implement
of a mode industry—glorious emblom of peace and plenty in instrument mighter in its effects upon the destines of the world than the sword or scepter. Egyptim meroglyphies record the use of

the plough in the valley of the Nile 5,000 years ago. A farked stick, one prong of which, six feet long was the beam; the other, two feet hing, sharpened, was the colter and share. This most untique implement of husbandry has been adopted by all the civilized and somi-civilized antions of the earth, and is still in use in parts of Portugal, Spain, Mexico and other countries, and for more than 50 centuries has time thagged this cronked stick down the ages.

It was improved by being shed with irm, when markind became sufficiently advanced in mechanies to mork quetals. The Bilde speaks of ploughs being "shed with seeks of iron and brass," and of the good theys " when severils should be benten into phow-shares. The Granks used two kinds; our the primitive, and one on whods. The Romans whiled a coltic a molil-baned, and in the decline and fall of the Roman Empire the plow shared the fate of all that want to make up that once great and proud nation. Only true conturnes have dapsedsi nee improvements were made on its original form and structure. These improve monts, from time to time, have kept pace with the progress of general industry. One of the trimids of mechanic arts is the successful introduction of steam ploughing. This, with the retary plough, seems distinct to corolationize the present system of agriculture. The successful marking of these modern appliances, some of which are capable of preparing 50 acres a thry to a depth thoroughly minttainable with minual power, is an energest of

Who shall doubt that the day is not for distant when the stram-plough, on prairie and valleys and slopes, will till the soil, sow the seed, thresh the grain, clean and sack it. "Truth is stranger than If any doubt the probabilities, non question the demonstration. The labors of Hercules are as\_the efforts of a pumy child compared to those of the steam engine. Laden with hundreds of tons of commerce, and correying palaces filled to replotion with passengers, it leaves behind in the race the smiftest steed as if it were motion less; nor are its triumphs less marked on the sea, Agriculture long [dodding is to be congratulated that the steam engine, the mightiest of friends, most tractable and useful of servants ever youchsafed to human genus, is more enlisted in her cause and doolient to her will.

The ordinary hund-ploy scens to be a very simple machine, but it involves principles so abstruse as to require a high order of intellect and profound learning in mechanics to understand and apply them, so that it shall do the most work with least friction and repairs. Much mechnical skill and tagenuity have been expended on the plow in bringing it to its present state of prefection, and the lield is open for yet greater improve ments. Let our schools and colleges thoroughly teach their classes the principles involved in all its forms -hand, gong, rotary and sterm. What has been said of the plough, from its incipiency to its most approved pattern, can, in general, be applied to all the various insidements of has bandry, at first so rade and wasteful of labor. It is surprising how tenneious agriculture was in holding on to its clumsy and inelficient machinery. Until the last half century the chief implements of harvesting mere the reaping book or sickle, the scythe, cradle and fluit. Notwithstanding, Pliny described a reaping machine in a. a. 23, and Pulla-dins in a. b. 301, both driven by oven, from that time down -1,400 years-history is potent for a remaing machine was taken out in England in 1799, which produced no practical results. The first successful renping or moving ma-chine, was invented and patented by Obel Hussey in 1833, the chirf movel device of which consists in a scalloped knife cutting between two lingers. From 1834 to 1872 4,500 patents had been obtained for improvements in reading and moving devices. In the meantime the number of patents for cultivaturs, harrows, etc., were legion. New, the me chanics of agriculture is in a high state of perfec tion, while invention and experience are rapidly producing more useful implements. It is a proud heast, but nevertheless true, that more has been accomplished in the last 50 years in perfecting agricultural machinery than mas done in all preced ing time. And in no time since history recorded events has progress lessum as sure of its foothadd, so firm in steps, and so rapid m stride. With this re view of the mechanics of agriculture, from the carliest periods to the present, let us investigate the social, commercial and political aspect of the The first word which meets our vision is vaste.

blagoned in bold relief on the page of history govie by,

The ruling classes in all nations ranked the priest above the addier, and the addier above the soil, a greater fallacy, a greater wrong could not be perpetrated upon any ago, people or government. For, as Laebig justly re-uarks. "Perfect agriculture is the true founds." tion of all trade and industry is the foundation

arts of war and prehitecture; her temples and public buildings were models of classic taste and beauty. So true to nature were her works of art, that nuder the touch of the sculptor's chisel the marble was said to "warm into life." For these we honor her. But what the tillers of her soil were mostly slaves. The nuclent Greek delighted in the glories of mar, the allhrement of positical preferment, the charms of music, but considered ngriculture as servile and degrading.

Rame in the days of her republican rigor sets a

brighter example. To overy citizen was alletted first, about two neres, subsequently six neres of land, which he was expected to till by his personal efforts. To Hurntins, who kept the bridge so

"They gave ldm of the carn-land That was of public right, As sends as two strong uzen Could plaugh from mern to night."

Her greatest warriors and misest statesmen felt it un hunar to earn their broad by the " sweat of their brow." Cata, distinguished for his lafty patriotism, prefound statesmanship, skillful generalship, great learning and unbending virtue, says: "I come now to the pleasures of husbandry, in which I eastly delight; they are not interrupted by old age, and they seem to me to be pursuits in which a n ise man's life should be spent. The earth does not relief against authority; it never gires linek without usury what it receives. The gains of hasbandry are not what exclusively commend it : I am charmed with the nature and productive virtnes of the sail. In my opinion, there can be no happier life; not only because the tillage of the il is substary to us all, but from the pleasures it yields. Nething can be more profitable, nothing more beautiful than a well cultirated farm." These were the proudest and happiest days of Roune, then the greatest mution that had ever ex-

Then none was for a parly,
Then all were for the State.
Then the great man helped the poor,
And the poor man loved the great.
Then the great was the portloned,
Then spoils were fairly wild;
The Bonnas were like brothers,
In the brave days of oid,"

Wars of conquest filled the republic with slaves who superseded freemen in the tillage of the soil; labor became degraded, laxury energated the richer classes; agriculture drooped, mithered, sank into decay, and the decline of Rome Legun.

Slavery and luxury are associate evils in the economy of a state; it is a question which is the greater cvil. Slavery degrades; luxury enervates each is an element of vice and markness. Each is incompatible to healthful and vigorous action, to just and trise law and its importal administra on, and to the development of the higher frendties and nobler aspirations of our being.

To feudalism, a species of slavery which spring up in the fifteenth century, and which has continued, under some modifications, down to our time, is to be attributed the constant upathy in the minds of the tillers of the soil toward improving the land and the means of cultivation. tenant at will had no incentive to improve his bulding, for by so doing he only increased his rent and not his profit. The foulal system precluded efficient agriculture. Its relies are still a hane to England. The uneasy and restless condition of mind with the masses of the people throughout the British Empire, grearing and of the social and legal relations between the owner (virtually femilial lard) and the cultivator of the hand, presages that the time is not for distant when the long-suffering and appressed people will rise as a girart in his might and free themselves.

It is an unhealthy condition of officirs in any state when the lamb are armed by a few, or when the masses are hundless as they are in the British Emmre. The English statesmen see this acknowledge the evil, recognizing the truth of

these lines by Goldsmith;

"Princes and lords may fourbil and may fade,
A breath can make them, as a breath has made
But the hold yeondarry, a country's orde,
Once gone their place can never be supplied."

It behoeves us to profit by the lesson of our trans atlantlantic friends, and not suffer our public domain to be squandered on bald and reckless spec ulators; but parcel it out to the tiller of the soil so as to effect the greatest goed to the greatest number, by so doing the ends of justice ttained, and the Government strengthened. human heart loves its own. Make the tiller of the sail its owner. He will love it, and fight for it to the hilt, because it is his own, a part and parcel of limiself. Let the Government see to it that such only shall only enjoy its bounty. The owner of the soil, feeling his interest ab-lied with the lest interests of the country, and being a freeman, is muturally a supporter of free labor and free metitations. In an emperator of freedom.

The farmer, in the samprehanive torm that is, the representative of all the various sail-tilling mad its consumitants, branches of of the richest States."

of the richest States."

threese rose to the highest eminence in the exact to the fluctuations and annoyances of speculasciences, in fine arts, in classic literature, in the platform and the hazard of adventure, hence leads uniformly a penceful life-independent of all except his personal care, willing and requited labor, the gentle rains and genul warmth of the sun to quicken the sown seed, invigantes the plant and ripen the crop. His toil is rewarded with pros-perity and a happy home. His children, educated to habits of imhustry, commony and tempor ance in all things, to enjoy the expanse of the country, and breathe the pure nir of henven, gross up in the hundth and vigor of hudy and mind, and came to adorn society, and humar the state by their intelligence and executive ability. If the lessons of the form portain less to the graces, than do those of the city, they nevertheless inculcate that which is more substantial and of greater ntility.

Webster, whose vioith was shent in tilling the soil, frankly identited that he had not the especity to dance. He had a higher nim and attained unto it, but great as he mas, he never outgrew his love

or farm life.

In ancient times the Sacret Plan employed. The kings and awful fathers of mankind ! And nome, with whom rampured your insect trib. Are but the beings of a summor's day. He would be seen to complex rated the storm of the life to the storm of the life to the storm of the life to the storm of the life tribe to the storm of the life tribe to the storm of the life tribe tribe to the storm of the life tribe tribe to the storm corruption can bestow. Ye generous from one, we need to be store storm of the life tribe tribe tribe tribe tribe tribe to the sun Lumriant and indominable! I as the sea Fir through his acure forbulled domain your country owns, and from a thousand shores wafts all the point of life tim your ports. So fills superfor known may your rist soil. Exaboratin starter's lighter his suits pour of or every hand, the maked nations risting a pour of or every hand, the maked nations risting. eet tribea

The history of the United States seems a renames mure is underful than the Arabian Nights rather than the solier record of events. But a few centuries have elapsed since the Eastern Centinent bestored her highest forms of civilization apon her trin sister of the west. Where once Idazed the council fire of the squalid savage, non-stands the State himse of civilized man. Thun the ecouter of our fathers mus lost a speek upon the surface of the earth. Non our country spreads out its ample domain from the Gulf to the Arctic and from the Atlantic to the Pacific. A nation of united sover-eigns, fifty millions strong, and which at the end of this century will number a hundred millions. riculture must not only be commensurate with the requirements of this vast population, but must people and other nations.

In the last decode the positive tion of the United

States has been: Of corruls, from forty-thre million tons to eighty-one million tone; of each in 1870 thirty-three millions trans, in 1880, seconty-one million tons; of iron, m. 1872, two million eight home dred thousand tons, in 1880, four million three hundred thousand tons; while the value of exports in 1872 was two hundred and fifty-four million didlars; during cleven months of 1880-81, it was eight him and eighty-four unillion dollars; of milrouds, in 1871, there were fifty six thousand three hundred miles, in 1880, eighty-seven thousand unic hundred completed, ten thousand in construction, and forty-one thousand projected, sufficient to girdly the earth five and one half times; while manafactures, in 1879, amounted to three billion three hundred and sixty million dollars; in 1880, five lollion three hundred and seventy million dallars, ex clusive of gas, malt, and spiritness liquors and petra-leum. From 1848 to 1881 the gold product of Califormin was \$1,155,000,000, which is fully double the entire quantity in circulation in the world prior to Murshall's discovery of gold in 1848. 41f this \$400,. pro,100 was taken from ancient river leds, the work done amounting to hot little more than prospect. ing. The impetus given to the readd by this addition to its circulating medium and standard of exchange has been shared by every branch of industry, and the results consequent upon the gold product of California have been inculculable and have surpassed all our conceptions. It lays and stocks our farms sad ranches; it pays for the labor to plant and harvest our crops; it builds our factories, furnishes the raw material and settles the cost of fabrication; its lands the ships that take away our products and return in exchange the products of every clime. The magnitude of this subject, and the present relation of farmer and miner, seem to justify the interposition of the Covernment, which I believe can and will adjust the rights of both without injury to either, "a consummation deviatly to be rished."

From 1870 to 1880 the population of the United States increased 11,600,000, which is 3,350,000 greater than during way other decade since the signing of the Declaration of Independence, and 7,000,000 greater than the average increase per de-

From 1873 to 1882 there were granted 131,468 patants for new and useful invantious, and 5,397 recissues, showing that gonus and science we in concert of action toward perfection in the things of lila, Those statistics furnish asoful lessens and problems to us all. Are we able to grapple with and master them?

In view of the progress of the age in the various

departments of industry, the written works of science showing how to hast utilize the forces and materials of mature, and the certainty that all the tillable lands will ere long be occupied and under cultivation throughout the Union, the duty and position of the American furmer assume a grave His personal case may seem to require him no further than to reap what is in sight. This policy will not in the end produce the lest results, Cupidity was much chagrined at the result of having killed her hen which laid the golden egg Already the complaint is heard that the hinds of California do not produce as well as formerly; that visible exhaustion and premature ald age have came ujaar them.

vegetalde creation, like the animal, most have a full supply of good food to yield its lest work. As well attempt to run the stemmenging without fiel as a farm without manure. All acture is subject to the large of equilibrium. We do but barrow the product of the land; the delitionst he pant, or we lose our crudit and the land becomes hankrujt; the soil demands an equivalent for every pound of grain taken from it.

"Coming eventseast their shudows before them." It requires not the vision of the seer to perceive that the near future will tax the full expanty of all the tillable lands of California to support their occupants and supply the increasing wants of our manufactures and commerce. England, with her population of 40,000,000, randing but alsort one half of her requisite cereals, looks to the United States to assist in supplying the deficiency. The overcrorded Orient, with her teening millions, depends upon the Pacific Slope as her granary.

Until recently France supplied the world with rine; the product of her vintage put into forty. gallon casks of ordinary form and placed end to end would encircle the globe. Today the rarages of the phylloxera have so seriously affected this product that the world looks chiefly to California as its future source of supply. The grape here, under intelligent culture, can be made to exceed in quantity the greatest yield of France, which in a good year, exercis 1,500,000,000 gallins. To meet these multiform requirements is the mission of the tillers of the soil. A thorough knowledge of the art and science of agriculture in all its varied branches is indispensable to the

To develop from seed and not the maximum culine of useful plants and useful annuals at minimum cost, cannot be accomplished unle the farmer shall have a clear and comprehensive understanding of the meture of those materials and agencies which produce the plants and in-crease hicherds. He must be able to determine whether the soil he tills is defective and bow he can best remedy it. He must be able to supply what food t e plant lacks, whether ammona, or a phosphate, or water, or other substance. If unter is needed, irrigation must be used; if there is too much water, the hand must be drained.

It is the province of agricultural chemistry to determine the faults and point out the remedies. It acquimits us with the fittest food for each of plants and useful animals; what the useful plants are exhaustive and what carreling to the il; how best to resuscitate a soil depleted by the removal of crops, and how to keep it in a healthy condition at a minimum cost; What food is best calculated to build up the minus frame, clothe it with muscle, cartilage, neeve and flesh, for the purposes of fleetness or labor, or for wilk and fattening. It acquaints us with the physical conditions of the soil, with respect to the dogrees of subdivisions, porosity, drynoss and doubt most invariable to the application of fertilizers and to vegetalde grantle. It acquaints us with the best methods of manufacturing home and other uniterials into valuable monures, and with the best means of utilizing the senerage and refuse of cities, and all matter posses ing fertilizing proporties. Agricultural chemistry embraces a wide range of natural sciences in its application to vegetable and annual product It is one of the useful sciences developed in the last fifty years. Prejudice against mmovation has drlayed a full enjoyment of the benefits agricultural chemistry is capalde of conferring But "truth is mighty and will prevail." ricultural chemistry rests upon a firm foundation and ranks among the most useful of modern scien-It is the farmer's best friend, whose cirtues e should fully understand and cherish. The world has designated Metheine, how and

Divinity as the trained professions, but it is fast finding out that it requires full as much talent and severe study to nequire a proficioncy in the art and science to farmine as to nemire a knowledge of the distinguished professions.

Tyndall says "the discavories and ganoralizations of modern science constitute a peen suldime than has ever yet lasen addressed to the The natural philosphor of may dwell annel conceptions which logger those of Milton." Modern science based upon netnal experiment, speaks whereof it knows. The science of agriculture consists of useful knowledge derived | knowledge, whether it descends from divine inspirby experiment and by practice on a large scale, By means of it will depend the development of the resources of California to their fullest extentto perfection. Quoting again Luclug: "Perfect agriculture is the true foundation of all trade and industry is the foundation of the riches of States. Ris the highest duty of the individual and of the State, to gather, foster and propagate this science capable of conferring blessings so great and multi-farious. How is it to be done?

ation or springs from human souse, would soon perish and vanish to oblivion, if it were not preserved in books, traditions, conferences and places appointed, as universities, colleges and schools, for the receipt and comforting of the same,"

California, appreciating the transcendent value of this most "excellent liquid of knowledge," founded, by the and of the Act of Congress of 1832, the University of California, of which the College of Agriculture, by the expressed provisions

versities. And to this summary is to be appended, tuition free. The doors of this University stand wide open, inviting the sons and daughters of California to enter and partake of its bounteons science, that force as a quantity is constant, but is ilornia to enter and partake of its bounteons blessings. The learned professors and their asso-ciates, are in readiness to cordially greet them, castes, are in readiness to commany greet them, and to lead them by pleasant paths into the rich and beautiful fields of science and art, and to assist them in gathering freely therein, the abmadant gens of knowledge which increase with neeffulness and brillmancy the more they are worn.

subject to change of form. Now he who changes in a lair proportion the form of force existing in wheat, grapes, pumpkins and other products of the soil, in cattle, horses, sheep and goats, into the form of brain force or useful knowledge, is a behefactor, not only to his offspring and immself, but also to the public.



AUTUMN IN THE MOUNTAINS.

of man hath mide and framed springheads, con-duts, cisterns and pools, which men have been ac-customed likewise to beautily and adorn with accomplishments of magmifeence of state, as well as of use and necessity, so this most excellent liquid of

Bacon, on proficiency and advancement of learning, says: "As water, whether it be the dew of beaven or the springs of the earth, doth scatter and lose itself in the ground, except it be collected in one receptable where it may be union comfort and sustain itself, and for that cause the industry purpose for which they were designed; its scient of man lath made and framed spring-heads, congrands, testerinity and out and skinnity enter for; its buildings are substantial and indapted to the purpose for which they were designed; its scien-tific apparatus is in keeping with the most ad-vanced state of learning; its collection of specimens in the various departments of science are choice and extensive; its officers, professors and tutors compare layorably with those of other Uni-

Our fortune rolls as from a smooth descent, And from the first impression, takes the hont; But if unsefzed, she glides away like wind, And leaves repenting folly far behind !"

In consideration of these advantages and the ability of our larmers generally to give their sons and daughters a Collegiate education, it is a matter of surprise that so lew avail themselves of the or surprise that so leve avail themselves of the problered boon; and especially is it a matter of sur-prise that of the scanty number of students from the farm so small a proportion study agriculture as a profession—for it certainly offers inducements to

The progress of the age demands these changes in force forms; demands carnest scientific work in in torce torins; demands earnest scientific work in all the departments of industry, especially in that of agricultural chemistry. The machinery of ag-riculture has attained a high degree of perfection, and it is a great error that agricultural chemistry should be confined within such narrow limits and be so little applied in practice. The impession is too common among most classes that a col-legrate education, instead of fitting one better to perform the duties of Tife, fills him with

self-conceit, whimerocond impracticable notions This fault, if existing at all, is not in collegiate edirection, but is inherent in the individual who, inflated with the idea that he is a genius, mistake the glifter of polished brass for the more subdued Instre of pure gold. Dr. icho like Ixion, lacking ti proque approxiation of his own uffilties, allows his presumption and indiscretions to mistake a cloud When he shall have completed a few for Juno. turns upon the hery which, he will be a wiser and a factor man, and a more useful member of the community than he would be without education. It is by education that we more fully appre-ciate how little we know and how much there is to bicknown. The "Prince of Philosophers," when eighty-four years of age, remarked "I do not know what I may appear to the world, but to myself 4 seem to have been only like a boy playing on the sea shore, and directing myself in non and then finding a smoother peblic or pretties shall than ordinary, while the great ocean of truth by all undiscovered before me."

Education not only inspires molesty in the mind of its processor, but sharpens, strongthens and disciplines the mental faculties for concert of action number the direction of the will; also mutures the judgement, so that it is detter enabled to comisel the will sright. Education canoldes the mind, and impresses upon it that all honest orentations are honorable, that in labor, however handle, is on through true dignity. Muchael Angelo said errory block of stone contained an imprisoned migol, awaiting some one to set it at liberty.

The educated man, fortified by congrommes of right, uses adoce till petty conceptions of what night soon menial labor. Wint matters it if he gathers rags on the streets; so long as it is honest labor, it is honorable. The gold for which hi solls his rags is as pure and valuable as the gold which buys the rarest gene that idenus a diadent; perchance the rags are of greater intrinsic ralio than the gent, for by labor they reappear in the form of paper, to a hose fidelity is intrusted most of the lossness relations of life billions of wealth, the treasures of art and of science, the records of events, the expressions of our impermost thoughts, and the inspirations of dirms uncloin and of goa hiess,

As the stur by ode is developed from the accenthe lefty pine on I manmoth sequein from diminatire seed, so the various useful industries, horrere huge their present proportions, have been developed from small beginnings. Others of like rhar-meter will spring up, flourish, un't porchance ex-

cred in magnificence may mor in operation. The educated have an immense advantage over the uneducated in comprehending un industry in its length and breadth, in its minutise and entirety, and are more likely to attain success. But alnear tion alone is insufficient to seeme satisfactory re sults in any audortaking; there must be untire talent at the foundation. A good unteh-spring cannot be made out of lead, however much it may be hammered, rolled and pulished; neither can un efficient workman, in any profession, be made of dull and inelastic nonterial. The achieve-ments of success are attained, for the most part by these who understand the relations of things, and hence seldom err in their deductions from any given state of facts. In isolated case blind fortune mar make millionaires of beggars or beggars of millionaires, but in general, man is the arbiter of his own fate. Possessing fair abilities, he, by observation and close study of scioned and art, is enolded to utilize the forces and am terials of uniture so as to secure maximum results at minimum cost. Their and not till then, is he truly practical. A term, too often sadly almost by being employed for jurposes akin to that of E-op's hon's skin - but the fiat of nature has gone "the fittest survive?" Lion's skins will not avail their awarers in these days of calightenment Different arocations require different order talent and rulture, and as the kind and linenese of a metal contained in a immeral imax are most readily determined by errorial or capel tests, so the kind and quality of talent of our sons and drugh ters are lest demonstrated by systematic study according to the kind, quality and quantity of the talent motal they shall yield, will they be estimathe treasures of the world. The talent of the child is not due to his larthidaes not to the protession of his parents. The former's son, by talent, tession of the parents. The farmer's son, by taken, may be best a lapted to the praction of his, or if mechanics, or of mechanics or the son of the needlanic, larger divine, or doctor may be best fitted by metire to pursue some other profession than that of his parents Let every legitimate means be exhausted to as certain the character of the tident with which he is enclowed; then cultivate it faithfully. Let not smilition or falso pride thewart the plan of natur or will of heaven. For "vaulting ambation which everleage itself, following the other, exercistic resert talia on the office, It he devel-op a talent and tasto to be reldicksmith, wood-storkor, or useful needmine of my soct, or a for mee, let him be a black-acith, wheelveright or fu-lant, and had him Godspeed. For they are all the

since, nerve, life Idead, mindred soul ofull that is most useful, heartiful, grand and glorious on earth. By their elbots we subsist, the grammies of the world are filled, cottages, palaces, temples of learn ing and worship, rast cities are all the work their hambs; the necessaries and hixures of life are the frants of their toil, the vast pavies and merchantmen are the trochs of their design and skill. Ye mothers and fathers, threar false ambition and false pride to the shades. Give to your smo and daughters trades and professions fitted to their talents and expacities, and unushed there as live, energetic workers in this grand army of pro-

The University of Colifornia is designed and qualitud to salve this most important problem of adaptability with respect to talent, trade and prosion; it is a mininture of the world where the affinity of mind for those sciences and arts involved in any special or upation, are determined with fa-It is a noted snying of Aristotle, "That the nature of everything is last in its smallest According to the taste or natural limit of the student's mind will be his inquiries and profi viruely in the parious branches of learning.

" The re's a divinity that shapes our ends, itongustion them how we wilt."

Let these natural proclinities, be emrifully noted by the professors and totals and be made known to purent or gurdian of the student, for upon these determinations and the indicions actions thereon, will, in a great measure, depend the student's suc-

The field of the arts and sciences embraced and cultirated in the University of California is exten-May it be enlarged and improved till nonshall surpass it in extrat, fortility and beauty under the campy of hearen. Let the individual, the State and the general Government units their energies for the accomplishment of this so jorldy grand and noble diject,

"Knowledge is power." Knowledge is the directire ugency by which under is brought out of first risible manifestation of the poreir, trisdom and goodness of knowledge was in its fiat, and execution thereof, "Let there be light met there was light." Now, as by this physical light we are enabled to perceive physical objects, from the most minute to the most sublime; so the more subtle light of knowledge we are enabled to perceive the more occult truths of nature and nature's laws

A star of the firmament is radiant with utility and beauty; it guides the shepherd with his flocks upon the hills, and the mariner in his rouse upon the deep. To the rhild it seems a delightful toy, while to the philosopher it is known to be the conter of a system of worlds. A constellation beam ing with the sidendors of many stars is proportionately a limited for its medaliness and grandenr. But the firmment replete with stars and constellations of stars, Idending their beauties and splen dors into a unity of light, is sublimely charmed of science is radiant with utility one beauty. It is a light in the obscurity of philosophy to guide us aright. The child sees but the inviting front in its full from the tree, while Newton perceives and grasps the har of its descent, and places glaring truth in the liranament of science to light there on all coming time. So a constellation of many truths, circumscribed by manned bounds, us the science of mathematics, of mechanics, of chemistry, of geology, of physics, etc., common b or a huration in proportion to the colume and in tensity of its light for all the parrioses of our lenne And so nother firm count of seconds, as in that of the henvene, its truths and its constallations of truth discorer Land determined, blond all then lightinto a glorious muty of light for the perfecting a the world's happiness and good. The enemiss of knowledge in the nets and sciences exists not only in theory but in practice; not only in our Pageer sitios of Training, but in all the accupations and relations of life

But while the stars shine brightest, the world sees but darkly. The stellar scene of the hrmn-nean merges into that of still higher forms of ase Influescand beauty, as deary more ascending the oast, sulfuses the corth and skies with rosy light and betakons the coming of the hould be glones of perfect day, so knowledge in the arts and sciences sees but thirkly; yet is so far advanced as to her ceres the morning tints of the perfect light of coming day. This is cause of most confiniterar gratulation to all whose usporations delight in nedde and more exalted achievements -in progress. For there is no higher degree of happiness known to mortid than is attarded by a consciousness of tunnal progress fravords perfection in all that is good. The designated bounds of a specialty are nominal not real. A specialty is last a fuller de-velopment of some president property of min of more elements of a while.

The agricultural, mechanical and commercial m district the arts, trades and protocopies so run other by insensific gradations; are so Idended that such is a component part of each of the athose is devaid of absolute identity, or like

noble soms of hourst labor, largely the hono and heat, light, motion and electricity, each is the cause, and each is the eller t of the other's existence. more the medistry of mechanics to set up for itself, it would full for the mant of agricultin to supply it with find; of commerce to furnish maternal for its wares; of the arts, sciences and trades to produce its chemicals, to design, proportion, draw and fashion its works; and of the professions to protect its legal rights, to care for its sick and to minister to its craftsmum for then moral and sportful good. Nor could agriculture, mer commare, nor may other enemphion, setting meter itself, succeed better without the resource turn of the various other industries, trades and professions. The only efencents foreign to progress um ignorance and alleness

As the immuneralde colors from the retiring test ridat to the most aggressive line of whether seen in the painted Herrers that heres the long or in the divers and diverse flowers of studio; or in the rich helds of reedure, and in the fields of nurries and golden harrest; or in the folinge of the forest; or in the Idama health and heavity on the cheek of youth; or in the soldned lastre of gold; or in the glorious stars and stripes that wave over and protect me or "in the how of promise set in the cloud " are all contained in every pencil of light of the sun. So all arts, sciences and occupations developed in proper propertions and to the full extent of their energies are contained in every penell of progress.

Furniers of Californial Surveying peers of u peerless Republich. Are ye far progress; Thr uniquitude of your vulling, the responsi killifies of your present and the possibilities of your future demand it. The spirit and the requirements of the ago demand it.

### PRICES OF LAND.

Land that can be used only for pasturage may be had at from \$1.25 to \$5.00 per acre. Unamproved lands, that are sufficiently moist or can be irrigated without great expense, command from \$15 to \$30 owing to proximity to market, etc. proved lands—bands that are under a good system of irrigation—are rated at \$40 for the band, with the value of the improvements added. Government hinds are still to be met with in many por tinns of the county that are subject to homestead and pre-emption, but most of them will hardly be taken up until stone menns of getting water upon them for purposes of irrigation have been discoverrd. People are now looking forward to the time when fruit shall be the simple product of this local ity, and as good fruit lambs are the lagnest priced everywhere also, our fruit lands are having an inward tendency. Some of the hand in the artesian belt has doubled, trelded and quadrupled in value ward tendency. during the past two years, but it sharled so low that it has not not reached a very high figure

Our land is sold in tructs ranging all the way from fire norce to five or even ten thousand neves There are some few who do not wish to sell at pres ent figures unless they can sell all they have in a buity, but there are yet thausands of acres of bost of lands that can be had in luts to suit the pur-The large bodies, it is hoped, will such by

oftered for colonization.

The ordery system works admirably into rever it has been tried, and we are broking luringed to the advent of same enterprising rapidalists, or association of non-of more limited means, to buy mesome of these large tracts, cut them up into twenty and forty-acre front larms, but off streets and avenues bring water from the shinus or bore artesian nells with which to irrigate them, and then litter them for sale to men of limited memos who will raise fruit and good stock. This system will dork us well upon a small scale as a large one. It four men cultuesoclate themselves together and larg 160 acres, fivide it into forty-acre lets, and here tore good well, they can have a small colony of their Tulare county new offers chisp thousands, but within the next two or three years it will require a small fortune to get a forty-nere lat. A rare opportunity is now aften to overy one Those whn are one will avail themselves of it once; the atherwise will think over the matter for a few genra and then buy land at a hunderd didlars por acre, that may now be had for terenty dollars, Tolury Register

## NEVADA COUNTY THE HEST PLACE.

O. D. Woodman, who has just returned from a six monetic's trip to Oregon. Washington Territory and British Columbia, informs as that Nevada county is about the best place after all. The northern country is crowded with people from all parts of the Union, and although most of the towns show evidences of thrift and presquerty, business ablerably overdone and the apportunities for the laboring classes are insufficient to recommedate me-fieff of those who force there the pust year. William Powell, who left this city several months sines, is doing well in the latel business at Whateom W. T. Mr. Wordman says Mr. Wordman snys that in raplace he has visited the first the peo-phe as sociable or public spirited as they are he Normala county. Business, tou, sourms to be about us good here as elsewhere and car people should have no cause for camplaint,—Nevado Herald,

## SANTA CLARA COUNTY.

Its Beautiful Climate and Advanta-

Cities- Tars us Rullmads Edgentional Pocilities and General Resource

[Written for Tite this order as by He Traveling Agent, JAMPS P. KEND.]

Santa Clara county lies between Alumeda county nd the southern arm of San Francisca bay an the murth, Stanfalana and Morred counties on the east. San Benito county to the south, and Sanla Cruz and San Mateu countries on the west. It is 51 miles in length and has an average width of 31 miles, and an area of 1,125,760 acres, divided into mountain, hill and phon, the beautiful Santa Clare valley, so micrelous in its fertifity, constituting the latter portion. His beaution is very advantageous, the this lance from its center to San Francisco ! 55 miles, while the two divisions of the Coast Range, between which it lies, protect It un one side from the enhi winds that sweep across the ocean, and on the other from the chills of the Sierra and mirthers of the identity

The suil to principally a rich, idack, sandy loan, which yields from 25 to 30 bushels of wheat to the Till within a few years, the higher seeing or footbulls were considered unly fit and used solely for that purpose; but experience has demonstrated that these lambs, even to the very tupe of the mountains, are admirably adapted to fruit culture, in fact they are considered fully equal to the very best in the State, especially for apricols, prones, cherries, pracs, peaches and grapes, and are located the tylicle length of the county, in what is known as the warm helt, which has an average width of twenly miles, almost totally exempt from frost.

On the western side of the county, at the very summent of the monutains, are several of the fluest irchards in the State, the fruit of which is of a very superior size and tlavor. In fact, to sum the whole matter up, but an axee durily small portion of the aggregate can in any sense be can waste land, that even being covered with a thick growth of rainable number.

The present population of Santa Clara county to

35,000, and the assured rahm of property, exclusive of railroad assessment, \$28,252 121. assessment in 1892, amounted to \$1 315,547, and it will not, in all probability, he less this year, so that lotal amount will reach \$29 567,468, showing a real gain of \$3,552,529.

The whole county, in general terms, s especially adapted to fruit-raising. Within the past three years several large farms have been suldivided, and a great number of newcomers hate purchased lands and entered apon the business of vinculinary aspecially is this the case in the vicinity of Lus Galos, the distance between there and San Jose bring same ten miles, almost all of which is a continuous line of fruit orchards. There are several pary extensive fruit canneries in the county three of which are located at the latter place atol one at the former.

The great want of Santa Chica county however, is manufacturing establishments that will give imployment to her surplus young men, lays and girls As it is, she imports all her shoes and most of her It is the old story, selling rair nints rial and importing monufactured. Thus is a cuinone policy, whether pursued by an individual, State or nation, and the sooner it is abandoned forever the better for all conferned. that the great underlying trouble is that the eriginul settlers came to make their fortums and then return to their homes in the East. California was fat goose to be pirked, an orange to be surked and then discarded, and never, until new people rome here to make their homes, can this wi state of things by changed for the latter. What makes the matter worse is the tact that these early comers are the ones who non own the haid and Who hold the rems, and it is not in their nature trede anything, scarcely, to advance the interest of the State, they being heat first, list and everytime on getting Shylookian interest, with ent any especial fromble to themselves. reader contrast the situations as presented, on the one hand by California, nor ... There, all is intra-and Washington Territory. There, all is intra-and washington. Real relate sells quickly activity and enterprise. Real estate sells quickly and advances regardly. Improvements are visible on every hand, money-making being the order of the day. And a fry all time? Because the projde are unlearable, and have gone there to stay. To make a frame and framil an inners. There is live ilio, and spend their lires in promoting all that will aid in the development of the Great North uest. The men, lacrover, alm originally came here had an auch aleas, and we can look to thum absolutely for nothing, for even has then nothing, they being as a drag to keep back our advancemont. Santa Clara canady roubl soon to made our the most desirable regions upon the whole been of the entity but, I repent emphatically, it can next expecting mu products and importing He jeaple mo wide make to edu miranifortured. entional matters, lost what a young man and weman needs most of all is one sure may of maklue a living, the former to enable himself to get

married, settle down, retablish a home and rear that first fundamental and requisite component of a nature-a family, and the latter to get her living, if through adversity she should be left to take care of herself.

Citizens of Santa Clara county, you have a de-Behtful region, favored beyond all procedent. See lo it at once that manufactures of every description are inaugerated. Set the ball in motion, and never cease until your glarious section becom mechanical as well as intellectual, agricultural and riticultural portion of the State.

San Jose is the county sent, and ranks fourth in the State in point of population, the present amount, ductualing the suberbs, being 16,000. Its location is admirable, climate delightful, and educational facilities of the very highest order; its public school system being, in all probability, second to that of no other city of its size in the Union. There are five elegant school houses, which cost from \$14,000 to \$25,000 each.

The University of the Pacific, under the control of the Methodist chruch, and designed to accommodete hotb sexes, is located midway between San-Jose and Santa Clara, a line of horse cars passing its front. In addition to these is the new State Normal School recently creeted inside the city limits, at a cost of \$149,000, the land upon which it slamis (Washington Square), (27 acres) baving been donated by the city to the State, the latter afterwards expending the sum of \$25,000 in order to

There are, also, several boarding and private schools, ably conducted and presided over by full corps of teachers, and finally the Garden City Contmercial College an instintion similar every way, to those located in San Francisco and other cities.

San Jose is lighted by electricity, there being five high masts and one immense tower, which present a very beautifut appearance.

### Hidels

The city can boast of several very fine hotels and restantants conducted in every respect the same as thuse to be found in the metropolis. The Auzirus House presided over by E. Dillroy, Esq., has ample accomprodation for 175 guests. The charges being Iwo dollars, two and a half and three dollars per day, according to style of room. It is located upon Santa Clara street, the great thoroughfare of the city, the table being supplied with the very best staples and luxuries turnshild by the Srn Francisco and Ban Jose markets.

The Saint James is also a splendid house, the propitelor being Tyler Beach, Esq. He has accommodations for one nundred guests. Fine large arry rooms elegantly furnished, and a table that is first class in every respect. All in quest of luxury aid delightful surroundings will do well to give turn a The hotel is located on First street a short distance from the rail road depot, opposite St. James Signare, with free coach to and from each

A few doors above is the New York exchange kept by P. Warkentin & Co., located upon the corner of First and St. John streets. Il can acenmmodate 250 per one. This is the general stopping place for the average travelers. Clean beds, fine rooms plenty of well cooked food, served in first class style and low prices, 25cls for a single ment, \$1,00 1 50 per day, and \$5.00 to 8.00 per week for board and lodging. Free coach to and from the railroad

The Pacific Hotel is located on Market Street (Nos 373 and 3751, and is said to be the most convenient house upon the whole Pacific Coast. Board is from \$5,00 to \$7.00 per week; single meals, 25 cents \$1,00 to \$1.00 per week single means, as contacts \$1,00 to \$1.50 per day. The first preat want of the dust-begrimmed gnest is a good bath, and this the proprietor, Charles M. Schiell, Esq., furnishes free. He also keeps a blackhoard in order to assist working people to obtain employment, bis house being emphatically the workingman's home. Mr. Schiell le evidently the right man in the right place.

The Lick Honse is located upon the corner of First and San Fernando Street; the proprtetors are B. Corey and I. E. Roberts. It is kept as a firstclass hotel, the charges being 50 cents a meal, ard, with room, \$1.50 to \$2.00. The firm have just furnished a new addition, adding 21 more One great advantage of which is that they are all on the first floor, climbing states being obviated, and quick egrees in case of fire. It is par-ticularly adapted to families snjourning or board-

The Russ House, an excellent hotel, is kept by John Barry, Esq., and is situated upon the corner of San Antonio and First Streets. It is conducted of San Antonio and First Streets. It is conducted in a home-like manner, and is first-class in overy respect, the rooms being zery fine. The house, a brick one, is new, and fitted up with a view to real home comfort and inxury. The table is surpassed by none in the city, while, at the same time, the charges are very moderate, the rates heing from \$1.00 to \$10.00 per week for huntri and room. Excellent beth groups are also connected with the cellent bath rooms are also connected with the house, and a free coach to find from every train.

## Prederickshurg Brewery.

This establishment is, with one exception, the largest in the state. The bubblings cover a space of largest in the state. The bubblings cover a space of 2°, acres. It consumes 25,000 sucks of heriev per pear, and keeps constantly on hand 15,000 barrels of splendid than every 24 hours, and is pearly as a splendid than every 24 hours, and is a splendid than every best machinery the present fitted up with the very best machinery the present

beer. It is the only browery upon the coast that age is able to furnish. It is built of cut stone, the an ice refrigerator in order to keep the beer enid, the one there having a capacity to manufac ture 25 tons per day, and was made in Chicago by the Boyle Ice Machine Company. The whole establishment is fitted up with every possible modern appliance, and in one month fr m the present time commence to export beer to every portion of the coast as well as foreign markets.
Cunning Fuctories

There are three in the city, viz.: the San Jose Golden Oate and Dawson, the former hiling one of the very largest in the world. San Jose line also foundries, a broom factory and one small shoe factory.

The carriage manufactory, established by W. T. Adel (at 263 First Street), called the City Carringe Factory, is turning out some fine specimens of carriages, top and open buggies, rocknivays, and light and heavy wagons.

James A. Claylon, the principal, as well as veteran, dealer in real property, has his office at 288 Santa Clara S rect. He has resided in the county for a period covering 31 years, and is probably the est resident judge of the true value of real estate in loth city and county, having been constantly engaged in the business during the past liftcen

San Jose has a decidedly metropolitan appearance, the stores and other buildings, particularly upon the two great streets, First and Santa Clara, heing similar in appearance to those found either in San Francisco or Chicago. Upon Markel Street, the firm of Lemoine, Turcl & Co. have a store 150 feet in depth by 100 in width, with an inflational wing of 60 feet, under the whole of which is one vast wine cellar, filled to its utmost capacity with California wines and brambles, Their sists of groceries, erochery and glasswars, boots and shoes, hals and caps, paints and olls, hurdware farming implements and machinery, while over head, in the second story, is located spice mill and immense grain depository.

### Bulldings, Etc.

The County Court House is probably the finest in the State and was creeted at a cost of \$200,000 It is the Cormthian style, with a facule one handred feel wide and eighty high. rounded by a dome, from whence a magnificent view of the city, and surrounding country can Adjoining the Court House is the County Jail, which cost upwards of \$80,000.

There are in all fifteen churches tochnding Catho, lic, Episcopal, Congregational, Baptist, Hebrew Methodist, (North, South and German), Prisbyterious and Friends.

There are seven newspapers, the Times, Herald, Mercury, Rem, Headlight, Poincer, and German Conver, the two latter being weeklies. Five Ma-Compact, the two latter being weeklies. From Ma-some ladges, five Old Fellows, one Red Mans and a Free Public Library, besides one Knights of Honor lodge, one Good Templars, one Sons of Temperance, and one Red Cross.

The assessed valuation of city property is \$10,000, The water supply derived from the Sunta Cruz Monutains is very simple, and of great purity, and besides this, there are a great number of fine flowing artesian wells.

## GHray

Oilroy is next in size to Ban Jose the population being about 4,000, Dairy ranches almind all the over to San Juan, fruit raising and agriculture not being so general as in the northern parties of the county. It has one principal street, which is well built up, and a great number of very pleasunt homes. There are several good hotels, and restanrauls, and besides churches and school houses, there is a seminary for the education of the canin species, presided over by professor Thomas Hiblebrand, the fuition charges being \$100, per term

GHroy Hol Springs
Are located some 12 miles east of the lown, and
are considered aining the very best in the State. They are delightfully situated in the foot-hills on the Coast Range, harting a very fine hotel, and great number of lasty, and elegantly futnished cottages for the accommodation of guests. The scenery in the vicinity is decidedly picturesque, and the view obtained from several points upon the road leading to them, very charming.

## Los Gictus

Is located len miles from San Jose, upon the line of the Bonth Pacific Coast Railroad, (narrowgnage), at the base of the Santa Cruz Monutains, in the region of the warm belt hefore attuded lo. It is a very lively place, the inhabitants being up and doing. They are prople who have gone there to stay. To make a hinne, and develop the grand resources of their highly favored region, raising is the principal pursuit, and in a few years will have become one of the most celebrated localities in the State. During the year its real estate has experienced quite a boom, asles having been made in all directions.

The Les Gates Fruit Cannery is one of the largest in the county, and has done numb to encourage the sotting out of Irees. At the present time it employs some 300 hands, its goods standing very high in the market.

original cost being \$100,000.

Three miles from the town is the Alma Hotel, a much frequented summer resort.

### New Almaden

Is a very bustling little mountain prwn situated al the New Almaden Quicksilver Mine. It is twolve miles distant from Sau Jose, the commetten helug

### Saratuga

In also located on the western side of the valley, in the warm beth and possesses a most delightful cli mate. Il has several paper mills, and a great number of quiet, vine-chal, cosy limites that excite of all phopass that way,

### Alviso

Is located at the northern end of the county, at the head of San Francisco bay, and is a general shipping point. It has but a small population, but owing loits great facilities for hamilling freight, is quite a busy place.

On the eastern side of the valley are the lo of Milpitas, Berryessa and Evergreen, all of which are small, but still very charming places. They, tno, are within the warm belt; the Contral Pacific Railroad passes through the former bringing it within an bour and a half of the me

### Societic Chern.

Is situated three miles from San Jose, the heartiful Alameda connecting them, but as the interven ing space is all built up with elegant and costly residences, the two places are now considered at most the same as one. Thus is also the locality of the celebrated Sunta Clara College, one of the most complete cilicational justitutions in the State

Mountain View and Maylield are both situated upon the line of the Southern Pacific Railrand, and are thriving, busy towns, each being the center of very rich agricultural district, and within one hour's transit of the City of San Francisco

The time must, and soon will come, when the rich buttom lambs and magnificent fouthills of Santa Clara county will be subdivided in 20, 10 and When that day shall have arrived, 60-acre tripits. it will become the home of a vast population of what might to be the happined pengle on earth. As I said he ore, the county needs minufacturing es tablishments, several more conneries and a great number of frutt-droing establishments, so that there need be no waste whatever of the fruit when Having three lines of railroad connecting it with San Francisco, the time will certainly come when it will be looked upon, every acre of it, as suburban property, and will be valued at a corresponding figure. Ten acres of grape vines, on either side of the valley (within the varm bilt), null afford an income of at least \$1,000 a year. With ten more for other purposes, the tarmer would have a delightful home, and absolute certainty of miking a good living for himself and tamily, free from the physical trouble ne read of daily in the lebursphic ceports, for reader, there are no cyclones in Santa Chira valley, and the Southern Pacific Radroad's trains are never lifted up and dashed to purch the wind, as was the case in Minnesota only a few days since. Teu acres in grapes, fire in prince five more for house-garden, hav and pasturage, and what more could any reasonable man desire and where in all the world could so great a space of comfort and true happiness be found as in home in Santa Clara county.

## INTERRESTING FACTS.

Tree-planting has been increased in this county from year to year. Of some kinds of musery trees our dealers have scarcely been adde to furnish a supply. In a recent interview with Mr. Joseph xton upon this subject, we burned that the mainl for fruit trees this year was much greator than it was last year, but not nearly so much as it would have been had early rains come

Apricots are most in demand. Pent prince, soft shelted walnut, Bartlett pear and peaches are wanted. Mr. Sexton and a large run on valuuts this senson. About 6,000 of this kind were disposed of by him and many more could have been sold had be had trees enough. Of the apricot about 20,000 ivers sold unil 2,000 of the princes. Many more prunes were wanted but they could not be liml in the State.

Mr. Sextun's sales were made, to a large extent In parties in this county, but a very considerable amount of his stock was sold to parties in Ventura. Especially is this true of the apricots. Quite a large number of the walnut trees were disposed of in Los Angeles county, so that Mr. Sexton en-joys a trade reaching over a number of counties. Mr. Sexton declares that Ventura country is to be the apricot section of the coast. There is much more in this county. There is more soil on which they will grow, but the climate is not nearly so good as There is more soil on which they that of this county. The apricot is particularly adapted to this coast. It is the only tree that leans towards the ocean, all other fruit and ornamental rees lean from it. There is considerable planting of pricets going on at the Carpintern. One buyer purchased 1,000 trees and another 650. Around Banta Barbara the average sales are trom 300 to 400 trees, Santa Barbara Independent,

### THE FRUIT CHOP.

Concerning the fruit crop a writer in the Bulletin of this city whose opportunities for judging are

The fruit interest is more presperous than ever and large quantities of given fronts are being sent East. But more attention is being given each year to the raining business. It is found to be more profitable and to rempire tess cure than the business selling green limit, and many orchardists are establishing canneries and drying establishments One firm in Sacramento this meason pul up 240,000 cans of strawberries. Apricots are the favorate fruit, as they are in great demand to the Eist which has few luminics, where they can be grown Orchards are being restablished in all parts of the Orchards are being restablished in Siste, and recently the land in a whole township in Butte county was hought by persons who will ca-stablish archinel. Water for triggium loss recently been put in this township, and talls was no some learned thin this township, and this was no sounce learned thin every acre was purchased, although it was a remanlerable distance from radroad con-nections."

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FRANCISC

### THE GEORGETOWN DIVIDE.

A Brief Outline of its Wooderful Hesopress

As we mentioned briefly in our last lesne, it was our pleasure to scoompany a party last week on a tour of inspection of the Georgetown Divide, the object being, as we were given to understand, to ascortain its extent, lis resources, and incidentally the feasibility of concepting that region by railroad with the Central Preitic road at some point which, on further investigation, may be decemed most fea-sible, probably at Aubura or Rocklin. The project of a railroad over there is something for railroad men, or other men of means, and the future to determine; hut as for the extent and resources of the country they are certainly remarkable, and well worthy a brief description in the columns of the Heradi. Living as we have lived, so close to that region, we had never visited it before and withstanding all that we had heard, its wealth of avallable soil, its fine water supply, and its wast forests of the finest timber, were to us a great and a pleasant aurprise. What is known as the Georgetown Divide lies between the South Fork and the Middle Fork of the American river, extending from a point on the west where these two branches the American come together, a little above Folsom, eastwardly to the summit of the Sierras. The rivers on either side diverge toward their source, embracing in the country dividing then vast area of timber land and footbill fruit land. The town of Georgetown contains a population of from 400 to 500 souls, pleasantly located at an altitude of about 2,700 feet, and yet in a state of comparative prosperity, owing to the mining develop-ments of the locality. It dates its origin almost as far back as the period when gold was first discover-ed in California; and from it the divide on which it is situated evidently derives its usore. This divide is in El Dorado county, the county that attracted the earliest gold hunters; hut being separated by the South Fork from the old emigrant road and the road that teamsters traveled so generally in later years when banking freight over the mountains to supply the early miners on the Comsto its resources, except such as were embraced in its rich placers, gravel deposits and quartz veius, re main to day comparatively undisturbed. Its timcut and hauled to the valley teamsters as back freight, as is the case to a greater or less extent on all the divides in this range of mountains along which trans-mountain reads were Its vast pine forests stand there to-day in all their pristine graudeur, barring the slight encroachment made upon them by the ubiquitons shakemaker. And their extent is wonderful. From point about ten miles up the ridge from George town they extend nearly or quile to the summit, a distance of over thirty miles, and from the Middle Fork to the South Fork, an average width of about twenly five miles. These forests are estimated to cover, in round numbers, from 450,000 to 500,000 acres. The timber includes principally sngar pine yellow pine, fir, aprace cedar and oak, th being abundant in places and mainly valuable for fuel. The pines stand thick and are of the finest form, many of them running to a hight of over 70 yards and varying in diameter from two to feet. There are many trees that will make from five to eight thousand feet of lumber apiece, and yet, putting the average of available trees at 20,000 to the acre, the timber on that divide would make nearly five billion or five thousand million feet of lumber, and this exclusive of the vasi amount of fire wood. But this is not all of the re onress of that region. From the timber line, the country as a general thing, is gratually nuclulat-ing; and the soil, like the soil on this divide at corresponding altitudes, is admirably adapted to the production of vines and all the staple fruits. At present the farmers over there, as a rule, content themselves with small orchards and vineyards for family use, and with raising hay; but these small orchards and vineyards demonstrate conclusively the wonderful adaptability of the soil and condi-tions to the production of the most prolific crops of the very best quality of fruit. For want of che and more convented market facilities, development in this line has been retarded; but with such opportunities for getting their fruit to market as would be afforded by a railroad, the possibilities of that divide, as a fruit producing region, can now hardly be imagined. The soil, as a rule, is deep, and not so precipitons but in most places at could be easily enlined; and, as for the matter of irrigation, it is the best watered section of the State that we know of. The California Water and Mining Company's ditches cover it all, and they are always filled with clear water from sources near the sun mit of the mountain that are never failing. the footbills of Placer are and are becoming as a fruit preducing region, the lower portion of the Georgotown Divide can be when enco it shall be layored with better transportation facilities. ture has been generous to that portion of our neighhoring county. We doubt if there is another secequal resources of undeveloped wealth; and we feel confident that if the parties who are at present contemplating the project fall to put a rullroad in there it will not be long until some other partles will; for in a country like this, where there is so

much money seeking profitable investment, such vast resources of undeveloped wealth, so near a-band, are not going to be allowed to remain undisturbed much longer, for the want of a comparatively small prollminary outley,-Placer Herold August 27th.

## THE FUTURE VINEYARD OF CALI-FORNIA,

Immigration will seek and find its own level. The best lands, the most favorable climate and the changest facilities to good markets, will lead the great currents of unmigration, and decide which county will first attract and secure the most desirable people for the State. There are many choice localities in the foothills, near the line of the California und Oregon Railroid, in Yuba Butte, Teliama and Shasta counties. These rich valleys and rolling hills will soon receive desirable settlers. Many people will travel northward thousands of miles and settle upon poorer lands than can be had in the counties asped. Distance lends enchantment to the view. There are but few vacant lands in this section of the State, which are not worth tshing up and planting to orchard and vineyards. Witness the changes during the last quarter of a century, and anticipate what will ocor during the next 25 years. The mild and armitropical climate of this section of the State gives it strong endorsement. The lands in the county of Yuba are capable of sustaining three times its present population and leaving plenty m. Adjoining counties have organized societies the encouragement of immigration, and the same nolicy should be adopted here. The mildness the climate in the footbills of Yuba, Butte and Tehama lend to them advantages not enjoyed in but a lew mountain counties of any State. But the lands ambject to pre-emption will not gratify the eye of the fancy farmers, but the industrious working man, with experience as a vineyardist, can not fail in appreciating them. These hills and valleys are at present in the condition nature them, but beneath their surface lies a virtue which can not fail in making them very productive and their cultivators independent. There are lands in othills that a majority of prople would not accept as a gift, while there are thousands of home less and landless who would deem an opportunity to secure them extremely fortunate. In the efforts making to secure occupants for these lands there should be great care against misrepresenting their character. Immigrants should not be luduced to move upon worthless lands. Immigrants who are torced to leave hands because of their sterillty and improductiveness, after being induced to settle by false representations, are grievously abused and wronged. Therefore too much care can not be taken by organized societies against deception by misrepresentation as lo the nature and productiveness of lands open to pre-emption. Immigration is urged from selfish motives, and the people who invite it are liable to be prejudiced. There are many acres of tillable lands in the footbills, and there are many more acres which are valueless. Immigrants should be told the truth. It is the prevailing impression that the best footbill lands of the Sierras will be occupied at no distant day by thriving vineyardists. French experts speak of our wines, but they are of the opinion that much superior qualities will be made from the grape grown in the footbills.—Marysudle Appeal.

## GOOD REASONING.

A writer in the Daily Evening Post of this city offers the following excellent reasons why vine growing cannot be overdone:

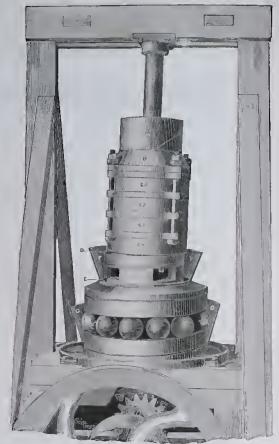
The population of the civilized world is increasing. If no new vince were planted wine would be scarce on that account alone. The vineyards of Europe are rapidly deteriorating, some completely annihilated by disease sud old age; in fact, more are decaying annually than are planted here, or ean be for the next ten years. It takes eight years after vines are planted in Europe before they bear finit, Even then these new European vineyards cannot compete with us for the simple reason that ours is a superior fruit. The vineyard districts of Europe are so discouraged that they are not only increasing the acreage to keep pace with the increasing population, but they are even replanting the whole of dovastated vineyards. Conscientious advocates who do not indulge in the juice of the vine, oau flud it more profitable to manufacture their products into raisins. If all the grapes growing in California to-day were utilized as raisine it would be insufficient to meet the demand of the United We would even then be obliged to import from Europe to comply with the consumption.

## WALNUT TRUCKS.

Some twelvo years ago, F. C. Graves, of Stoney ercek, set out a lot of walnut trees. We drove around them the other day, and found one that will aspreat least four feet in dlameter. is not very long, but we vening that the timber from it would be worth \$50. These trees have paid for the land they occupy a dozen times over with the nuts they have horne. The trees have been no trouble and have had no water. — Colusa Nun.

### DYER CANNON BALL THE OUARTZ MILL.

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We now offer with confidence the "Dyen Cannon Ball Quairz Mill." Thaving bron fully tested by an exerce use as it ever can be subjected to. We claim that it possesses more dearrable qualities than Shamps or any other machine. Comparison with Shamps is always in order. Accordingly we state, that the core in very much less, has less wear, Taxes less power to non and is not more than one fifth of the weight of a Stamp Mill of same capacity. Freights are not one-fifth being machiner to another than the strong and to otherwise twa-cessible places for Stamps and other heavy Mills. It is simple, compact and strong, no complicated machinery to get out of order and the wearing parts are cheaply as ally provided. Its movement its rotary, crushing, (not grinding) either well or itry equally well, and running in either direction than some. Runs light, makes but little noise, and does not hipper by running empty. Will reach according to power used, readily geared for sleam, waier or horse-power, and can be run by Hurdy Gurdy Wheel on Pinlon Shaft, which is a wery favorile method. Occupies him little space. Is quickly set up and renowed, and can be placed on any side-hill where there is ten feet of level ground. It will take good size quariz, dispension with Rocking in a few mutules. The disctarge is noost ample and but this did and any to analgane, and each element in a few mutules. The disctarge is noost ample and but this did and casy to analgane, and each element up in a few mutules. The disctarge is noost ample and but this did and care the required to be done. The favore the favore of the farmer of the favore of the favore of the farmer of the favore of the favo

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### GOOD VIELO.

The Sanislans What Grower says. Wheat has lurned out much better than the farmers auticipa-Mr. Ishp thrashed thirty-two husbels to the are from his summer-fallow and ascenteen bushels to the acre from his summer-fallow and ascenteen bushels to the acre for his winter-sawing. S. K-arney cleaned up thirty bushels but the acre on his summer-fallow and twelve hushels per acre on winter-sown—at hird more than he expected.

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## FINE RESIDENCE

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Clay St., bet Franklin and Gough,

Also one of 9 rooms on Folsom street, between Twenty-first and Twenty-second,

Twelve lots in Bay View Home-stead Association.

Lot on Twenty-seventh avenue, adjoining Point Lobos road, 70x 120 feet.

One hundred and tifty thousand cres land in Tom Green county,

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Alfalfa, Orchard, and Vineyard Land --- N.I.

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## \$10,000 LIFE INSURANCE FOR \$50. \$5,000 FOR \$30.

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First-Graded assessments, so that the young and old will pay their exact proportion, and only as the same shall be required.

Second—A Reserve Fund, so that the permonency of the Association is guaranteed.

That A careful Medical Examination, so that only the healthy can become members, thus insuring a low more than the contraction of the careful Medical Examination and the contraction of the careful Medical Examination and the contraction of the careful Medical Examination of the careful Medical Exam

mortality.

Fourth—The Tonime System, so that old members will reach a point where no further psyments will be replied.—The Tonime System, so that old members will ensure the results of the same
for the System of the Trust Fund beyond the control of the Officers and Directors, so that no part of the same
can be used in psying exorbitant salaries or expenses, or misappropriated or corruptly bandled by them.

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thion presenting these combined features has ever fathed in the history of luamrance. No plan of

ver presented to the public has such a universal hold of the hearts of the people, and has been so

ly accepted as a sound hasis for permanent protection to the tusured, as that adopted and presented to insurance ever presented to the nonotinously accepted as a southe public by this Association

THE ASSESSMENT FOR 1882, AT ACE 35, WAS ONLY \$3.10 FOR EACH \$1,000

This Association is to-day compared of over fifteen thousand business men, much as Bankers, Mirchauts, Lawyers, Editors, Professors of our Colleges, Clergymen, Manufacturer, United States and State Sonstors, Chiefs of our Georgians, and member of other contracts and others, at united together for the protection of their families, upon a compared of the professors of their families, upon a compared of the professors of the foundation of the section of the protection afforded.

Our bushiess in force at the beginning of the year was \$1,001.000. At the end of the year it is \$25,270,260. The assessments for death claim per year, for the past two years, have been, at the average of 35, but \$1 in per thousand dollars insurance, while all of our death claims have been paid in full when due; while, at the same age, the usual raises under the old system are \$26.60 per year, or \$35 for the two years, on each one thousand dollars of heurance.

APPOINTMENT OF AUDITOR.

Mr. O. Baldwin, the highly esteemed President of the Fourth National Bank of New York City, a han-secoling assets exceeding \$10,000,000, has become our Auditor of the Death Claims, Reserve Fund and Assess Accounts. Within the past four months he has caused two examinations to be made into our accounts. It case the examination, as per his report, has proved summently satisfactory.

## THUST COMPANY AS TRUSCEE

Your Board of Directors within the year have also selected the Central Trust Company, of this city, to act an Trustee of our Reserve Paud, of which Mr Henry F, Spaulding h President, and the Hon J. P. Olenit, late Companies of the State of New York, is the Vive-President. The contract made with the Trust Company places the fonds of the Reserve Paud beyond the control of the management of this Association, yet retaining a contingent supervision to prevent peculative from other sources. The Contrat Trust Company has a cash capital and surplus of 11,000,000, with assets a (xceeding \$1,000,000), thus all conceivable asfoguards have been thrown around the affairs of this Association.

OPINIONS OF ACTUABUES.

Within the past year we have received written opinions from the great Actuaries of our country. How, Edzar Wright and Mr. Sheppard Homans, as well as the opinions of many other equalty reliable Actuaries. In every case the report has been that our system is cornect, and our Association will be a permaneut and useful institution.

## TWO SYSTEMS ANALYZED.

The fact is, there are two systems of Life Insurance in existence to-day. The one is known as the Level Premium System; the other is known as the Assessment System.

## ASSESSMENT SYSTEM.

The Assessment System requires the members to provide for their hosses as they occur. It adults of the flashred heing the enstodian of their lown money until it is absolutely breded; and its only weak holet, as developed by the experience of the past, is a lock of co-hesiveness, which has been fully provided against nuder the Beserve Fund system of this Association.

## LEVEL PHEMIUM SYSTEM.

The Level Premium System requires the members to provide for the masses infere they occur. To determine the proper amount to be collected in advance, they have adopted what is known as the American Experience Mark tallity Table. The correctness of this table is not a matter of funds. That it, with the interest on the excess of payments are the only elements to be considered in making up the cost of life insurance, is a disputed question, the any like least

or say the frest
Or rates are based on actual and not on assumed mortality, as is the case with the old line companies, which
Orquire in advance four times the actual cost of insurance.

BF FIRST-CLASS MEN WANTED IN EVERLY TOWN ON THE COAST AS AGENTS. THE

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Coneral Agent Mutual Heserve Fund Life Association for the Picitic Coust, 314 MONTGOMERY STREET, SAN FRANCISCO.

THE MEN CALIFORNIA NEEDS.

Under the shove heading, we take the following

very acostole article from the Los Angeles Express It is but a little over fourteen years since the Central Pacific Ridroad met the Union Pacific at Ogden and made on all rail route from ocean to ocean. The last spike was driven on May 8th, 1869. March, 1881, a accord route, via the Southern Pacific, was opened. In the fourteen years there have the State, by rail, 638,700 passengers. arrived in There left the State by rail, in the asme time, 387,-800 people, leaving nearly a net gain of population from this source of 251,400 souls rushes of immigrants came in 1873-4, when we gained 26,800; and the three following years, when the net gains were respectively, 37,600, 37,500 and 24,000. Then came a large falling off until 1881-2, when we gained 20,300. The present year hide feir to become one of the largest years on record in this matter.

We need not fear this tide of new blood into the We number within the whole bounds of California a million inhebitente. As was shown lately, in this paper, Italy, with less area, has a population of 25,000,000 people.

But some say while we have room for many more people, we do not want certain classes. These tim d souls rather eay there ere only a certain few classes we do want. We want only people of means. This is a mistake. It would be hard to name the class of persons who can not find a place here. The opportunities are bere-All the newcomer is eyes to see a good thing, and resolution and industry to secure it for himself. Gold does not lie on top of the ground, nor are baked loaves tound in the streets, neither are there reedy huilt houses to be occupied rent free anywhere. But we bave hero gold in the mountains, bread in the soil, and material to build honses at hend,

There are men who should not come here, man whose life is a failure everywhere would prob-The chronically impeennions, the born-tired, the blind of understanding who can not tell golden opportunities when they see them. would be likely to find California the same circumscribed field for their genus as where they now ere, They would not succeed in building up a fortune

But we want men, rather than money, although the money need not be a drewbeck to the man A few days ego we pointed out how a man of little or no capital could come here and make an inde-pendence in a few years. We propose to follow that example with another. We will say this newcomer has \$750 to \$1,250 in reedy money. There was a little ranch sold, a few days since, of ten acres with ae mall house and some out offices on it, for A man who can work with head. ess than \$1,000. and hand on such a place can make a comfortable With a few animals, a large flock of try, ducks, geese and turkoys, and vegetables for s city markets, he can year by year ley by money. For a chicken 50 cents is a low price at any time of year. A duck is worth as much. A fat goose will sell for \$2 quicker than one of our standard silver Thikeye bring alive, from 15 cents, an ex-Eggs tremely low price, up to 25 cents per pound. sell from 20 cents to 40 cents per dozen all the year. Last spring they scarcely, at any time, went down

If the settler will teke our previous advice and go up on some mountain apura, he can get land cheaper. He can dig water out of the rock, without Moses' rod to smite it. He can have tomatoes, green peas and potatoes in the market from such a congue of vantage, where every ray of sun is caught, as to bring prices almost fabulous. An bigh as \$700 per acre have been reaped from little patches. As the city grows in population and wealth these profits will grow more certain. There are aide hill lande in Alameda county of just such character described above, for which Portugnese gardeners hay \$20 per annum rentat, and glow rich. 'The lands can be bought here for that sum a little way from the oity.

The man who our take hold of such en enterprise, and conduct it with energy and skill, is of more use to this county than a man of five times as much money, but, who must get into a husiness ready mails to order. What we need is the industrious, patient, shrewd poincer, who can make a thing where it is not, or double an enterprise already It we must choose between brain and muscle and money, let the last be left out.

## SENSIBLE ADVICE.

The San Bernardino Times cantions the people that section not to be foolish enough to "kill the gnose that was to lay the golden egg," by asking fabulous prices for properly, as the demand for it increases, whely suggosting that "San Bernardino is not the only place in California in which good land can be procured," The caution is a wise one for every section to head. Hanagaschers have be procured." The caution is a wise one section to head. Home seckers have a wide field from which to select in this broad State of ours, and no community that looks well to its future intorests will ask more than a fair and honest compensation that will cover all legitimate values, and enable the purchaser at the same time to realize a reasonable profit on his outlay.—Los Angeles Mirror.

### A GOOD WORD FOR THE RAILROAD

The Calico Print, a paper published in Calico, San Bernardino county and devoted to the urlaing interests of that section has the following sensible remerks concerning the good the railroad has accomplished for the mining community of that portion of the State:

There are many persona while vociferating ageinst railroad monopoly and crying for a reduction in freights and fares overlook the great advantages gained by railroad communication, and also the fact that they would be as execting, and perbaps more so, than the present monopolies, were they occupying the same position. The edvantages of the railroad are plainly felt and seen in almost every branch of industry in the southern part of thie State. Of course further reduction of feres and freights would be most desirable to the public, but thie will all take plece in time, for large tations as well as bodies, move slowly. The reilroad through mineral districts of this county hes given the industry of mining a great imprine. The company has obtained water along the line of the railroad which is of great benefit to the miner and prospector, besides the time and expense saved and the great convenience galned by shipping their supplies and machinery to a much nearer point than heretofore to the scene of operatione, is of vital importance to those engaged in mining. Rich mlueral districts are now accessible to poor men as well as the rich, and the number of who heve and will come bere with only a few dollare and have left or will leave with small fortunes is as great if not greater than can be seen reaping fortunes in any other charecter of business in the same length of time. While a few leamsters and atage lines have suffered from the presence of the ratiroed hundreds and thousends of poor men now tave opportunities to make handsome stakes in ligging for gold and silver or engaging in business in mining towns which they would not have had without the railread. When the tron bridge is built across the Colorado river then daily trains will be passing through here to and from the Eastern States, which will tufuse new life into the principal towns along the railroad, and be a means of advertising the great mineral resources of this part of the county and causing labor and capital to become to a greater degree interested in the development of hundreds of mines that look as well externelly as any rich mines found elsewhere but which are waiting for men of enterprise to take hold of them. The present and future prosperity of the numerous mining districts of this county depend to a great extent upon the inestimable henefits reelized from the railroad. general impression now in this part of the county that lively times will commence from this fall, and that the shipment of bullion from our mines will reach considerable proportions in a lew years. There is an abundance of mineral here, but it requires enterprising lebor and capital to extract it from the earth.

## A GOLO ANO COPPER LEGGE.

The following we take from a late issue of the Visalia Times:

L. A. Juhuson. Frank Prothero, Charlie Harland and one other men have found a ledge neer Drumms valley that shows a splendid prospect. The piece where they discovered it is three miles from Drumms valley and 35 miles from There are two distinct ledges, one of gold quartz, the other of copper ore, and are only twenty or thirty feet epert. Mr. Johnson sent some of the thirty feet epert. copper ore to San Francisco and it assayed 60 per cent. Since getting the assay he has taken and cent. much finer are, which will probably go 75 per cent. The ore is free from any foreign substance, and can be worked very enerty and economically. At the outcroppings the leage wes about two teet wide, hut as the shaft goes down the prospect widens. The gold quartz is a splemlid specimen, but is only from the troppings. The gentlemen have not yet had an assay made of this, but intend doing so immediately. The specimen shown the Times was a piece taken oul neer the aurface with a pirk. a fine piece of quartz and louke like a rock thet taken out in the richest mining districts. The gold is very fine, but can be seen very plainly on the surface with the naked eye. No estimate can be made of its value until it is assayed, but the test will undoubtedly give rich results. anys that from the indications the hidge is very large, and widens out as it goes down, as does the copper vein. He thinks the two finally merge into copper vein. He limbs the two finally merge into one, and they are going to rnn a tunnel in below them, with the intention of tapping the two about 75 feet below the surface. Should the result prove satisfactory, the owners will extend their operations and put up a criticer and smelter. They have sent for Mark Lavelle to run the tunnel, and work will be pushed through on it as rapidly as possible. There is no doubt that there are meny of these hind of ledges in the mountains above here, and should this prove as rich as it looks, the adjecent country will probably be more fully prospected than it has yet been. There have been numerous ledges tound, but none where the ruck would pay for the milling. If some of these were sunk down for a distance good and rich paying rock might be found.

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## THE RESOURCES OF CALIFORNIA. Idished this with a very small population,

JOHN P. H. WENTWOHTH.

EDITOR AND PROPRIETOR

### PUBLICATION OFFICE.

No. 320 Sansome St., Gallack Building.

ISSUED MONTHLY

Terms ...... \$2 per Annum.

SAN FRANCISCO ..... SEPTEMBER, 1883

### READ AND CHICHLATE

When you have read this paper preserve it and lend it to your neighbors, or settle it come friend in the Eastern, Westernor Southern States, Canada, Eagland and Couthern States, Canada, Eagland and Couthernal Europe, who will write the Information It contains, and might be likely to come or send intelligent, industrious farmers to settle in California.

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## THE TOUCH-STONE OF CALIFORNIA'S PHOSPERITY.

A third of a centuary ago our now thriving commonwealth was a comparatively harren territory. Her resources were undeveloped and her agricultural capacities unt icd. The railroad is the fouch-stone that has raised this community in this short time, to the prominence of being the greatest grain producing community in the world, to proportion to its area and population. Within a quarter of a century we find uncultivated tracts clothed with waving grain, our once barren hill-sides laden with rich fruit, bearing vines and trees, our buy terming with an active merchant marine, braring the product of over three millions of cultivated acres to every port in the known world.

California when first settled, as a State, was known to be rich in gold, and the enormous products of her placer mines attracted attention far and wide. But in that early period of its history, it was believed to be barren of We distinctly remember it everything else. was said, at that time hymany prominent men, that they would not give a bit an acre for the best lands in Culifornia for agricultural purposes, and that the gold would soon give out and the country ultimately become a dry unil harren desert. Haw very different things have resulted since that prediction was made. The yield in the precious metals has been immense: yet it was but a small fraction of wealth when compared to that which will result from the enormous agricultural capacities of California now in process of development. Many wonderful events have occurred since the early settlement of the State which no one could have toretold. Who, for instance, could have predicted, even twenty years ago, that the time would come when stenuters, and ships would whiten every sen on the globe, bound for California, not ladou with provisions to eid, nor things to use and wear as in those days, but to secure cargoes from our immense surplus of agricultural products,

The territory embraced, within the limits of Califorula, extends along the sea-coast for over 800 miles and some 200 tarles in width. The State has commercial relations with all the antions of the world. It has within its area every variety of climate and soil. It yields nearly all the known products of every clime, It has since its suttlement poured into the coffers of the commercial world \$1,150,000,000 of gold dag from the earth, heades many millions worth of agricultural products. It has accom-

which even to-day does not number 1,000,000. It has done this with men who came here nossessed of no other wealth than my ve and enrigy, qualities which always win in the hard hattles of life We are confident that the progrees which California has made in the past is but the beginning of that which is to come. Some of the most intelligent and best informed of our recent visitors, we are assured, declared, that with all their reading on the subject, they failed to comprehend California's great advantages until they came to the State and examined for themselves.

### OUR NEW IMMIGRANTS.

We are sorry to see it stated, occussionally, by a few of our exchanges, that there is nothing for the new compre to our State to do. We can not see why they should take this deleful view of the case. What facts justify them in sa doing? Is there not work enough in this new and virgin land, where everything has to be created, to occupy them all? Indeed, most of them seem to know where they are going, and what they will find to do. They are not manmg in such large numbers that there need be muy apprehensions felt as to how they can he taken care of. The American people are much in the habit of taking care of themselves, and so far they have proved equal to the occasion.

Of course, this immigration should be aided with reliable information upon all questions touching their wants. It will be well for the State, and well for the immigrant, if there is a general disposition manifested to give them enconragement, and help them with advice and an opportunity to tide over the first year of their residence among us. It would be well for the great bind owner, and well for the immigrant if this is made the occasion of dividing the large estates and throwing them upon the market in small farms, and upon fovorable terms. But it is, after all, nothing to come here uow, where there are rich lands, a known climate, law, chnrches, schools, religion-all the attributes of a grand civilization-and abundant food in our own fields for each, though they were many times as namerons. When the early immigrants came there was neither food, nor clothing, nor law, nor civilization in the land. They brought all these with them and planted them here. Yet neither the people or the press mourned their coming. Eich took care of himself, and an empire grew. And why can not the immigrants now arriving do the same? Are they loss brave, less bardy, less persevering, less reconomical? portunities are superior to those who preceded them more than a third of a century ago. Give them a chauce to show what stuff they are made of before declaring that they can not find anything to do.

Who can describe the immense change that has taken place since the advent of the early settlers of California. The soil, which had never been bruken by the plaw, has been made to yield the most bounteous crops of all kimls, and in such abundance that from importer she has become an exporter. Her fertile valleys are no longer over-rnu by herds of wild cattile, but have been converted into grain fields, orchards, vinyeards and gardens, yielding every variety of choice fruits, vegetables and flowers She has sutered into a lively competition with the vineyards of France, Italy and Spain in the production of grapes. Cities and towns have spring up, as it were, by magic. Each of them is fast becoming a distributing point of supplies for the numerous settlements which are constantly being added by the never comsing immigration.

## HON. IRVING M. SCOTT'S ADDITIONS.

We devote considerable space to the address of this gentleman, at the State Fair on the 13th inst. It is able and instructive, and will well repay a careful reading on the part of all our jutrous. The demonstrates most conclusively, that all intelligent labor is both useful and dignified. The mildress shows study and research, and yet it is so simplified that a pupil of the fifth grade of our public schools can naderstand its lauguage. Among the distinguished gentlemen of California, who were present, we will tunne the following: Guy. Goo. Stimeman, Ex. Governor Wm. Irwin, Gen. John Bidwell, Hou, Jus. Me M. Shufter, Mayor Brown of Sacramento, John H. Wise, Col. Chas. F. Crocker, Hon. John W. Baggs, Jesse D. Carr, and H. M. La Rue. CALIFORNIA'S CEREAL ACREAGE

Secretary Edwin F. Smith, of the State Board of Agriculture, has compiled and published a statistical table showing the urea, according to the data obtained by him, of the wheat, barley, corn, oats and rye in each of the counties of the State this year. His total of wheat is 2,631,710 acres; harley, 775,495; corn, 65 756; oats, 122,618; eye, 29,351. This is the actual acreage sown to grain, but it does not include summer-fullow which will produce a crop next year. From the reparts he has received the secretary is of the opinion that the whent erop will fall twenty per cent, below that of last year, while the acreage is ten per cent. grenter. He reports an increuse of fifteen per cent, in the burley noreage of this year over that of last, and the probability of an average The acreage and combition of other cereal crops are about the same as last year, Speaking of our large crops of wheat the

American Miller remarks that few people, even in our own country, realize how inexhaustible resources are for wheat-growing. The total area of lands available is not less than 500,000 000 acres. California's entire wheat crop, of this year, would not supply seed enough to sow so cast un area of land. We claim that California is justly entitled to a large shore of the credit for this good showing. There is no cloubt but our young commonwealth has shown a capacity for wheat-raising that has astonished the world. She raises about one-eighth of all the wheat produced in the United States. This year, after feeding our own population of nearly a million, we shall export over a million tons to feed the people of the old world. Notwithstanding there is less than 3,000,000 acres devoted to this cereal in California, she has already taken the lead among the wheat-producing States. We now grow wheat enough to load seven or eight hundred ships, in addition to what is required for home consumption. For this our people are, undoubtedly, thankful; but we trust that they will not be satisfied with past achieve meuts. On the contrary, they should only serve as incentives in the future. It has been estimated that there are, including the swamp and overflowed lands, fully 20,000,000 acres yet to be udiled to the area of wheat land now under cultivation. We may safely estimate that the grain acreage will, from year to year, nucrease until this whole truct is under the plow. When that time arrives, and it surely will within a few years, our State alone will be able to supply not only all her own people with bread-staffs, which will probably number 5,000,000 at least, but she will have a targe surplus for export to Europe. Our soil and climate are admirably adapted to the cultivation of this cereal. There is plenty of evidence going to show that no other country can excel our State in the growth and quality of her corouls. It is an acknowledged fact that Califorms wheat ranks highest in the foreign markets. Neither rust, smut nor any other disease, common to much of the wheat produced in the Atlantic States and foreign conutries, injure it.

## OUR NATURAL WEALTH.

The world at large is beginning to have a proper appreciation of the natural wealth of People who regard it merely as a gold and silver producing State are not aware of the fact that her agricultural and other produets are of more value than all the sources of her mines us vast and valuable as they are. Her grain and her fruits far exceed the value of her richest mines. The grape crop of this year is so abundant that preparations are being made to convert thousands of tons of them into raisins. In the article of cannual fruits Ochfornio will soon beat the world, and furnish the markets of the country with an alundance of the finest varieties at the lowest prices. Aside from some lucky speculators, the well to do men to-day of California are not those who looked for gold in the mines, but that class who sought a competency by other

## GHAPES.

The Santa Rosa Republican says, that a lanch of grapes from the ranch of E. II. Morse, near Santa Rosa, on exhibition at the Parmers' Exchange bank, weight four pounds. The grapes are of the Chasselies variety and are

Subscribe for The Resources or California.

EMPLOYMENT FOR THOUSANDS OF BYEN.

The immense arous of rich and fertile lands adapted to fruit-raising and agriculture, as yet unoccupied, must impress intelligent people with the houndless apportunities this State still offers for making homes and securing comfort in a vary few years. We have said, and our opinion is shared by professional prehardists, that there is a chance in California for a million men to make comfortable homes by engaging in the business of growing fruits, oranges, lemons, grapes and alives. In any one of these pursuits a furmer may realize a regular annual income varying from one bundred and fifty to three hundred dollars un acre, necording to the shill with which his work is done and the quality of the fruit he cultivates, In parts of San Bernardino five acres in raisin grapes may be relied on for a clear profit of \$1,200 to \$1,500. In Sucramento, Yolo and Alumeda counties berries and apricots often yield still more to the acre than misin grapes in San Bernanlino; and the walnut, almond and orange orchards of Los Angeles and Santa Burburn do better still,

The foot-hills of the western slope of the Sierro Nevada range of mountains, embracing un aren of forty miles wide and four hundred long, are peculiarly adapted to the cultivation of fruits, vines, unt-bearing trees, agriculture and stock-raising; and the hills and valleys of the Coast Ringe of mountains, comprising a tract of country 500 miles long, are equally adapted to the same pursuits. And yet in all this region not one acre in a hundred has been brought under cultivation.

## CALIFORNIA WINES IN ENGLAND.

Speaking of the prospects of the wine interests generally and alluding to the damages done by the phylloxera, the St. James Gazette, a publication of acknowledged standing in England, says: "Now that the phylloxera has damaged almost beyond repair a large proportion of the vincyards in France, and the wine exporters have been obliged to supplement the natural juice of the grape with some less pleasant decoctions, it might be well for some enterprising firm of wine merchants in England to turn their attention to the wines of Culifornia. There is one peculiarity about the cultivation of the vine in California, which the vineyard owner of France and the hopgrower of England will learn with envy. For the last 30 years there has not been a single senson in which the crop has not been a completo success," The outlook for the winegrowers of California is encouraging. Great dumage has been done to our wines by unscrupulous wine venders, and also by the use of foreign nomenclature and labels. In spite of this our wines are growing in favor, and the time is not for distant when they will be found. under their own proper name and label, on the tables of our best hotels and on the sideboards of our acknowledged wine connoisseurs. California is surely destined to be the vineyard of the world. -San Bernardian Index.

## PUBLIC WINES.

A writer in the Chronicle, of this city, has the following:

Our native wines, thanks to the intelligent influence of the State Viticultural Society, are kept pure. Our brandies, though a small minoral of coloring matter is used by some makers to give the bne which most persons consider a test of their quality, have not been to any appreciable extent inhilterided. Some of our most reputable makers use no coloring unitter whatever, and their brandles are not only excellent in thevor, but allove enspicion. It would perhaps be better, under the circumstances, that all mlapt the rate and allow their brandies to go to market with only the pule tint from the casks. This would be an addituand guarantee of their excellence, and could the consumers, whose tustes have been vitiated by the adulterated foreign article, he induced to understand them, a victory of incalculable importance would be gained. It is possible that brandles may be adulterated in California, but we do not heliove that it will be attempted by any distitlers of regute, no matter with what easa it can be accomplished or hace much chapper the product. The purity of our wines has thus far been uninturned by the honesty and associated vigilance of our grape growers and we believe our broudies one to left to the same conscientions and thorough supervision,

### CALIFORNIA OUTLINED.

a Plain Statement of many of the Inducemonts she Presents to Every Formest, Thoughtful, Active, Percevering and In-dustrious Man, who Socks Through the Medium of Honest, Well-directed Labor, to Rim to the Ulgalty of Unqualited In-

(Written for The Resources of Califolinia, by James C. Komp.)

California is no place for a good-for-nothing, shiftles, lazy man, who seeks to get a herng or obtain a competence in any other manner, than through honest, widl-applied labor and effort Neither is she adapted to the necessities of one who has a family to support, no capital, and only his two willing hands to assist him. It is about as poor a locality us I know of, for a preacher, lawyer, doctor, clerk or professional man, unless passessed of the most signal ahility-in other words, of qualifications for above the average of those even, who, not only are considered, but are in reality, decidedly talented in their purticular sphere. If, however, on the other hand, there is a more desirable or better section extant, (all things considered) for the home of a sensible, enterprising, cornestnever say die-industrious man, who has means ranging from a thousand dollars upwards, I would sincerely and respectfully ask the possessor of such knowledge to kindly inform me where that locality is?

I came to this State thirty-four years ago, am thoroughly requainted with its topography, climate, advantages and every resource, and unbesitatingly and conscientiously state, that in my opinion, it is the healthiest, fairest, best in every respect, and most favored had upon which the dew of heaven falls, or blazing snusheds its effulgent, penetrating, life-giving rays. I have reached this conclusion through the medium of actual, practical experience, and the closest research, and know fully as well as I do that I am a living being, that my deductions are unquestionably correct.

We can judge of the merits of anything material, only by comparison, and as California has been honored by the advent of a very large number of distinguished visitors from every portion of our Common Country, most of whom have made the journey lather for the first time, I propose in this communnication, to address myself particularly to them, and ask all such who shall chance to read my statements, to afterwards institute comparison between what they may have seen and experienced here, and that which they have at home, and in fact have been accustomed to. from childhood up. Knowing as I do that their conclusions will be the same as my own, and that they are filled with admiration of the mighty resources lying around in every direction, inviting enterprise, plainly inflicating and pointing with the hand of manifest destiny, to a state of enviloantion, far grander, prouder, and more advanced than was even yet attained or even so much as dreamed of, by any people of whom history or tradition gives account.

Nothing comparatively has been done here in the way of mannfacturing, and yet the conditions are very superior in many respects to those found in any other portion of the conutry. We have the largest and most available rater power of any State in the Union, extending completely over that portion of California known as the Great Foothill region, which among other advantages never freezes. Our climate is such that very many portions of the work upon different articles can be performed out of floors the year round, and this is a disideratum of the utmost importance, it being in fact one of the principal causes, that has given the blankets manufactured in this city, at the Mission Woolen Mills, a quality and reputation far above those made in may other quarter of the world. Nearly every description of iron goods could be made here, from a locomotive or steamship down to a cooking stove, and of all places in America in which to minimineture the latter, this is certainty the most advantageous. Iron of the very best quality abounds throughout the mining region, that of Clipper Gap, Placer Co., being fully equal to the Scotch imported, and right in that immediate vicinity, extensive works should be erested, the water power losing emermens and close at hand. We export most of our wheat instead of first making it note flour, and send wood to other localities to be woven into cloth and returned to na agniu, when, fast f snid betore) this is the very best section known (naturally) for the manufacture of woolen goods. The little fish

culled the sauline, swarms in countless millions | place Culifornia is, but it very soon will, and all along our coast, from Lower California to Oregon, and there is literally no limit to the supply of olive of ve could produce, and yet no one has ever put up a lox of them, while on the other hand, we have imported millions of didliers worth from France, and still keep on doing so as the years roll by. All our wooden ware, a large portion of the necessary supply id furniture, as well as wa ous, farming implements, etc., are imported, while hundreds of our hands of pork, ham and bucon come to us over the railroad yearly, notwithstanding this is one of the very best places on ourth in which to raise logs. In the winter season, too, turkeys, chickens and other punitry come to us regularly from Kansas, N. brasko, lownmed other States west of the Ruckers and Missonri tiver. This is all wrong. It hould not be so, and here is a ground opening for thuse who wish to astublish themselves in a good business, that will pay well and finally make them rieb.

Our wines are becoming well-known and highly appreciated, and here is one of the most splended opportunities for enterprise that has ever existed in any age of the world. Handreds of thousands of vineyards can be set ant, and still there is no such thing as according the business. Eren now, we sell the truce so fast that it cannot be kept long emaigh to nttain the necessary age required to suit the nurket. The time is coming when California wines and brandies will stand at the bend of all others, irben this will be the great headquarters of these products, from which they will be shipped to every portion of the civilized world. There is a chance here for half a million men to engage in this business, large areas of land in the State being adapted to grape culture.

I come now to the great overshadowing business of all, that is destrued to convert the male State into a countless number of delightful vineyards and orchards. Culifornia will become the chosen land of the viticulturist. Nature designed this piece of territory, 800 miles one way, by 250 the other, to finally be the great fruit producing region of the world, Upon one sale of it she created the magestia Sierra, towering henvenward to an altitude of 13,000 feet, placing upon its erest the eternal boily of snow, that throughout the generations to come will furnish the element, with which to irrigate the whole foothill section, Sacramento and San Joaquin valleys,

In California, water makes everything possible, given a sufficiency of it, and the soil will produce a crop, such as mortal eye never gazed upon before. The snow that accommulates thering a runcy senson, as I stated in a former communication, in its during the warm months of spring, summer and full, and passes off into the Parific Ocean. This, if saved and utilized, would water the whole State, and the time is soon coming when it will be made to do so, The project is a grand one, that may well interest the capitalist. Railroad investments have had their day, and the next great operation, involving thousands of millions of dollars will be the crection of mighty aquaducts haudreds of miles in length and composing in their nggregate, a "magnificent, inhand mountain that will be carried through a vast net work of flames and pipes all over the three sections named. When this great enterprise shall have become an accomplished fact, California will enter upon a career of activity and productive grandeur, such as the most enthusiastic visionary dreamer never for a moment contemplated, and which will make her the great center of civilization in the twentieth century and Sun Francisco the distributing denot of the world. This will as surely come to pass, as night will follow day. We rend of dreadful eveloues, of houses blown to atoms, whole families destroyed without a moment's warning; of thumber and lightning and men, women and children struck dead by thunderbolts; of hail stones large as duck eggs, that kill the cuttle in the fields, while here in this favored, heaven-blessed State of California, all is tranquil and screwe; those of our citizens who mere horn here not knowing what such statements mean. Is any person so msano as to suppose that people will not flock to such a favored lundity? Do not ships seek the safest harbor, and in fact does not humanity always select the lest it can find, and will recoile, who can have their choice, be foods caungh to drink skim milk, when they can get jura, unabilterated eroma, and that too at a far less princ? The faul is the world has not gut its eye

the extremely good thing we '19ers have enjoyed, or rather monopolized for the past thirty-four years will snon have to be cut up, and around among our less fortunate brethren.

The cultivation of the raisin grape, drying and putting up box misins is another pursuit has paid extremely well thus far, and which bids fair to become of the very largest and most important of our industries. Fresno county is particularly adapted to the culture of this fruit, the extremely long summer and dry, hot wenther in September and Ortober being the great outminating advantage, enabling the producer to dry his grapes and carry on every detail of the process in the open air. The vicinity of Riversule, and Santa Aua valley, too, is equally well favored, the product being fully as goinl as that imported from Malaga, and finding a condy sale at very remanerative figures.

Ruising and drying prunes is still another specialty that will pay well, and can not be overdone; and what, I would ask, could any one desire better than an orchard of 40 acres of this fruit, with twenty more for all other purposes? A man thus situated would be one of the most truly independent persons upon the face of the curth. It is literally impossilile to conceive of any linsiness that would be nt unce so agreeable and, at the same time, free from the thousand and one difficulties and petty innuoyances that heaet us at every turn of the road, and which seem to be inseperalde from nearly every joursuit in the cutalogne, souring the disposition and making our lives mu absolute burden to be endured instead of enjayed.

I might go on and onnmerate several other fruits which may one can cultivate solely for a husiness, but will only mention the apricot, which belongs almost entirely to Culifornia, it growing here to perfection. Twenty acres of this fruit would support a large sized family in uffluence, and the trees will flourish in nearly every portion of the State.

We neither have extremely hot nor intensely cold weather, and in the city of San Franeisco experience that great boon so often prayed for by the denizens of the East, namely, a region where it is cool in summer and warm in winter. This, I repeat, is a literal realization in this city, and all those desiring such a climatic condition need seek no further, but come here at once and enjoy themselves as hest they may, and to their heart's content. If asked to enumerate some of the advantages of California over all other portions of the world, my reply would be-my style of climate desired. Three hundred and fifty days of each year warm enough for a man to work ont of doors in his shirt sleeves, in nearly every portion of the State, and particularly in that part lying between Point Conception and the 32d parallel of latitude. This region constitutes the "sanitarium of the world," and where the poor consumptive can go, recover live, if the awful desease has left just enough of him or her for nature to build upon, The footbills of Sunta Barbara, Los Angeles, San Bernardino and San Diego counties being at an altitude of 1,200 feet, the most invigorat ing, health-promoting, life-giring region upon the whole American Continent. This is a great and very important fact that the people everywhere should know and fully realize, Not only can a person go there with almost absolute certainty of recovery, unless too far gone, but with the snruty of being able to a living, remain, and even become wealthy through viticulture, bee-raising and kindred

The finest field in America for men of small or large means to establish themselves in the wine-making and fruit-raising losiness, either on a small, extensive or gigantic scale; in the former case, not being under the necessity of expending all their capital in the crection of a house and out buildings, the climate being such that the latter are not needed, while the former can be built by anyone of ordinary mechanical ability, for say, three to four hundred dollars, and that, too, good enough for a family of six to live in for years or until the vineyard and orchard come into full bearing, and yield the maney to build a better one.

best section in America in which to raise wheat, this being the banner State for 1883, in all probability; while for stock raising she stouds pro-eminently at the head, with the

hirthplace of the finest types of animal life to he found upon this planet. Her magnificent horses will suon be known for and mule, while, even now, her splemlid sheep are being exported to countries that have heretofore been celebrated for their fine breeds of Cotswalds Southdowns, Spanish and Freuch Merinos

Six months of anutinnous, unbroken sunshine, with no fear, care or thought of a rainy day. School facilities of the very highest order; churches the same; and a press that-for editorial ability, news reliability and enterprise in securing, at whatever cost, the latesf telegraphic information from all parts of the world-is second to none in the nation. Places of amusement equal to the very lest found anywhere, and hotels that are, at once, the oilmirntion and wonder of visitors from every portion of the earth.

These are a few of the inducements the Golden State has to offer, and I respectfully submit the 1rnth of every statement I has made, even to the minutest particular. Culifornia is the most desirable suot in all this world for a home. This is an incontrovertible fact that nieds no demonstration whatever, for here the people are exempt from every great physical trouble, and most of the lesser ones that afflict humanity everywhere else. Let the reader, who has the slightest doubt of this, simply sit don't before a map of the world and see if he or she can place a finger upon any other section passessing such manifestly transcendent advantages.

SAN FRANCISCO, September, 1883.

### BAILROAD LANDS.

It is gratifying to note the fact that the railroad companies are selling their lands in comparatively small tracts. They have had many offers for large tracts from syndicates and speculators but they have preferred selling to those who will occupy and improve the lunds.

## A BUSY TIME.

The wood chappers in the vicinity of Truckee will be unusually husy the next four weeks. Contractors have agreed to deliver large amounts and the flumes and men will be kept

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yet, and has not found out what a glorious | certainty of becoming, in the near fature, the | JOHN T. TOY, - - - City Agent,

RESOURCES AND CAPABILITIES OF LAKE | OUNTY,

The editor of the St Helena Times has been recently on a tour of observation through Lake County, from his paper we copy the following regarding one of the rapidly growing acotions of the State:

The question that most luterests the people of Lake County at the present time is that pertaining to the growth of the vine and the adeptation of their soil to its oulture. There are already over one usand acres planted in vines, a portion of which ranges in age from one to two years. Quite an Impetus has been given to the husiness within the past twenty months through the course of many enterprising gentlemen who have at an ontlay of considerable capital started new vineyards and feel groatly encouraged at the outlook. Many of these parties have been induced to take this step from witnessing the astonishing progress that has heen made in viniculture in the Naps Valley during the past five years. They believe that the meny portions of Lako County is well vine and adapted to the successful oulture of the their faith is undoubtedly woll founded. There may be here and there spots which are liable to be visited by late frosts but experience shows that while there may be some risk consequent upon this possibility a large portion of the county will be found well adapted to the purpose, and others a woll as those now interested in that industry will engage in the work with fair prospects of liberal remuneration. One of the most promising looking vineyards in the county is that started within the immediate vicinity of Lower Lake, owned by a company of gentlemen belonging to San Francisco who deputed R. K. Nichols, Esq., to represent their interests and push the husiness forward. Mr. Nichols encountered s very tough country when he took hold there, but nothing daunted he went to work in earnest and leveled hundreds of acres, rooting out the unpromising chemisal that heset his pathway on every side and planting the pro-ductive vine in lieu of the same. His vineyard of 300 acres is now the subject of wonder and admiration at the bands of all who knew what the country was but a short time ago The Zinfandels and Chasselas varieties predominate in this vineyard, and their present appearance shows what can be accomplished by untiring industry and perseverance. Maurice Keatinge, Judge Hastings, J. L. Smythe and many other pioneers in a like enter prise are also demonstrating the possibilities of Lake County in the same direction, and the exambles of these gentlemps seem to be having a most. ples of these gentlemon seem to be baving a most saintary effect. The industry is, in consequence. saintary effect. The industry is, in consequence, receiving earnest and merited attention, and receiving earness and metrical wherever we made inquiries on the subject we found that Napa Valley cuttings had been conspicuously songht after by those engaged in the husi-There will be several wine cellars erected in various aections of the county during the coming twelve months, and the people generally are looking forward to an era of prosperily in connection with this promising industry, and the introduction of live men and additional capital that it foreshedows. In addition to the outlook from this standpoint splendid grain crops are reported in Lake this season, and matters generally wear quite a promising aspect with every indication of peace and plenty in the near future. Whether the railroad is huilt in the near future. Whether the railroad is huilt or not, (but it is certain to be huilt at no distant day) the impetus already given to business by what ne, compled with the recent rapid rise heen dor in the value of real estate and other promising signs for the future reveal quite a hopeful condition of affairs for Lake County, and her neighbors one and all will be gratified to witness the change for the hetter.

## LUMBERING.

The saw mills west of the aummit of the Slerrs Nevada monntains, in the belt tributary to the Central Pacific, says the Grass Valley Union, will cul about about 25,000,000 feet during the season. Yoss will cut 2,500,000 on the You Bet divide; Carwill cut shout 1,000,000 at Gold Run; Towlo Brothers 12,000,000 in their mills, with the Damsgoard mill idle. They now have eighteen miles of railroad and three engines. They have just moved the Kearsarge mill and got it running. Gensendor-fer will ent 1,000,000 in Onion valley, back of Emigrant Gap; Friend & Terry will cut 3,000,000 on grant Gap; Friend & Terry will cut 1,500,-north fork of the American; Avory will cut 1,500,-000 in Monument caryon; Marsh will cut 2,000,000 on Rock creek, above Nevada City, and Cooper 1.000,000 on Deer creek.

## NO WONDER.

Twenty-five pounds of queriz sent down from Tom Green's mine on Deadwood is pronounced the richest lot of quartz of that size that has ever been shown in town. Deadwood is becoming famous for her gold quartz deposits. In fact the mountain re-gion between French Gulch and Deadwood is lousey" with gold. No wander W. T. Coleman and other capitalists are investing in those golden hills, interlaced and bound together, as it were, with cords and not work of gold and quartz.—

Shasta Courier.

RESOURCES OF SHASTA COUNTY.

A correspondent of the Sucramonto Bee has written to that journal, from Redding, a very interesting letter concerning the resources and ots of Shasta county. From it wo take the fol-

For many years after the discovery of gold in the northern part of the State, Shasta county was one of the wealthiest, most prosperous and populous counties in California, and Shasta city was the emporium of the north. As the mines proved less remunerative, many ranches were taken up along the foothilts and valleys. Much of this land proved very productive and well adapted for grain and fruits. Several important quartz mines bave been scovored and partly developed, and by aid of capital to properly develop them would doubtless prove to be valuable proporty.

During the last three years the tide of immigration, which had been pouring into the southern part of the State and making the deserts to blossom and bear fruit, has been turned in this direction, and much excellent land is being bought and impraved. Our local Immigration Society has been the means of attracting many persons to this county who were in search of homes. Thousands of acres of land, which had been considered worthless except for grazing purposes, have been found by ex-perionce to produce fine crops of hay and grain and well sdapted for vines and fruits. As this county is situated at the head of the Sacramento and embraces such an extensive area of foothills and small valleys, and is so woll protected by mountain ranges, these advantages, together with the fact that water is shoudant, the soil fertile and the climate salubrious, are destined to make this one of the finest fruit counties in the State. The lumbering interests are but partially developed. Fine forests of sugar and vellow pine, fir sud cedar only await the investment of capital to bring them to market. The extension of the California and Oregon Railroad will open up a large acction of country which contains great possibilities.

The pleasure resorts are attracting considerable

attention. The grand natural sconery, the abund-snce of fish and game, and the cool, sparkling, salth-resorting waters of our springs and mountsiu atreams, are great inducements to tourists, and will be patronized by thousands of health and pleasure-seekers when their advantages become gon-erally known.

Notwithstanding that hundreds of acres of lands Notwithstanding that inindress of acres of same have been taken up within the past few years, thousands of acres of grein, fruit, grazing and tim-ber lands are still vacant, and only await capital and enterprise. What is most desired is that the fact be generally known that this county possess unlimited resources.

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3,000 land, near North Sod Springs; 10 acres in vines, 15 acres in vines, 15 acres mere ready to plant; one acres gooseberries, balance tiliable; bouseand herm; also yet gas applies of water, W. M. BRANDON & CO., 944 Rearny stroot,

\$2,500. 74 AORES IN SONOMA COUNTY, and the from school of the period of

20 ACRES AND UPWARDS--1000 ACRES FINEST fruit, grape or farming lamia in the Slate; all rich level land, and plowed ready for pianting; all easily on small yearly installments; cheap land and convenient for transportation; has opportunity wor offered for a poor man lo obtain a home; will suit att classes; plenty of rain and lowey climato. W. M. BRANDON & CO., 344 Kearny sirect.

\$ 0.0. 344 Kearny street.

\$ 30,000 a. 1,000 ACRES ON SONOMA of Sonomua; 200 seres in the cultivation, as follows: 26 acres in full bearing grape vines, all bouilty and vigorous 10.0 dynama full bearing crape vines, all bouilty and vigorous 10.0 dynama full bearing crebard, consisting of ppice, preaches, pears, plunas, approach, consisting of ppice, preaches, pears, plunas, approach, consisting of the pice, and the plunas plunas approach grapes and fruit. On the balance of the hand there is good pasture and between 7,000 and 10,000 cords of wood. Place well watered by running streams. "Ferms easy. W. M. BRANDON & CO., 344 Kearny street,

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San Francisco, all nocessery faraing tools, 8 tone lany,
406 fruit becas, one 2009 fruit waren, house, barrs,
fruit-packing innee, out house and sheels, two good wells
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a week in your country to compare time." 566
a week in your country to the second of the secon

## FRUIT ON GENERAL BIDWELL'S RANCH.

The entire orchard and vinevard is estimated to over 1300 acres of ground but it is so located along the creek in tracts of all sizes and shapes as not to appear half so much. If it was all in one body it would truly be a magnificent sight. As it is, the work of cultivation and expecially gathering is much more difficult, but the pleasure of viewing is enhanced by the great variety of scenery which is associated. With orchards and vineyards of all trees to the right and to the left, the road winds hither and thither, while the tree-embowered creek flows in the midst, and clumps of timber come in here and there, making most remarkable diversity and boanty. We give the subjoined figures; kindly furnished by Mr. Grsy, the superintendent, than half of the trees are now bearing: Peaches. 13,500; plums, 6,465; apples, 1,955; spricots, 3,990; pears, 1,735; cherries, 1,675; almonds, 2,800; quinco, 60; figs, 50; total 29,840. In 1880 there were 50, 000 graps vines, and this year 12,000 were set out, making in all 62,000. There are also eight acres of blackberries .- Chico Record.

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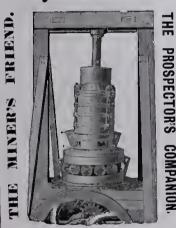
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### A TRAVELED'S OPINION

A correspondent of the Baltimore American writes to that journal a very constic, but withal a very complimentary, letter concerning Caliornia. He is evidently a person who has traveled much and has discovered the weak points of human nature, as well as the strong ones. The first balf of the latter is devoted to a criticism of California customs, character and institutions, and no opportunity is allowed to pass without touching as apon tauder spots. Then the correspondent proceeds to describe the places he had visited and the hearties be had seen during an extended trip over the State. He thinks that J. C. Flood's private residence at Menlo Purk excels any other ou the globe, and does not besitate to declare that Del Monte, with its speldid hotel, picturesque surroundings, delightful purks and drives, etc., is "the handsomest watering-place in America." He thinks that no city in the Union of equal population rivals Onklaud in the matter handsome residences and flower-gardens. This very interesting letter concludes:

'The more one sees of this State, its great earth giants, beautiful lakes, manimoth trees, springs and valleys, the more fully he believes that there is no State in the Union, no country in the world, that can be compared with California as a glorious, healthful picuickiug ground. It is so rich in natural scenic wonders, it covers so vast a territory, that the visitor may travel an entire year within its borders and constantly meet sights, some of which in point of grandeur and true interest are not equaled anywhere on earth. I look back upon no period of my life with so much satisfaction and pleasure as upon the six months which I have at different times spent on the golden const of the Pacific."

The writer of the above is svidently no novice in the matter of travel and observation. By this time he is in Australia, whither he was ourneying at last accounts. He views people and places with a critical, if not a cynical eye, and when he can give them a rap he does and in a most effective vein of sarcasm. Whatever such a person may say of places that he visits will be widely read, and we apprehend that his descriptious of and conclusions in regard to California-its, climate, resources, drawbacks, people, institutions, etc .- will be read with much interest by Eastern people and redound to the benefit of the State .- Sacramento Bee.

## A DESERT VINEYARD.

The Index office was the gratified recipient, this morning, of several bunches of Mission grapes from O. D. Gass. Mr. Gass brought the grapes in from the Whitewater country, where the Indians have small vineyards, but so few that they never find their These grapes were way into the markets. way into the markets. Indee grapes were shown to us to prove what the country is capa-ble of. A company has been formed, called the Gorgonio Vine Association, which owns 350 acres of land in this vicinity, and within one mils and a half of the railroad. The company consists mostly of Riverside men, but O. D. Gass and Tom Cover are the principals. This whole tract of 350 acres will be planted to the grape. The land was secured in time to plant only a few acres last apring. The land has an abundant supply of irrigating water, with a redwood flume 200 rods long. The water flows from Snow creek, and will furuish 350 inches during any aeason of the year. The owners expect to flood the market with grapes from one month to six weeka earlier than they can be ripened in the valleys -San Bernardino Index.

## VINE PHOSPECTS IN POPE VALLEY.

Our Pope valley correspondent writes as follows: Young vineyards in this vicinity are growing remarkably well, many of the young viues having attained over a foot in growth, and on some of the hillside vineyards, only a year old, we note that among the Chasselas variety, many of them are not only growing luxuriantly, but are budding for bloom. So the promise is that we shall have a light crop on one year old vines. This is a degree of success not expected even by the most sanguine grupe grower, and convinces all who have them that the soil and climate on the billsides in this vicinity cannot be surpassed for vinsyards .- Napa Reporter.

Subscribe for The Resources of California. large and plump.

### OREGON AS A PRODUCER.

The Oregonian, published at Portland, declares that excepting wheat, Oregon has not of food products enough of anything for home consumption of its own production. Oregon has a soil of great fertility, that should be rich in all the resources of agriculture. If she falls to produce what is needed for home consumption, there must be something wrong with the methods employed by her people. As to climate and productive quality of the soil, she has not much of which to complain. Why is it, then, that in all except wheat and flour, food supplies are dearer in Portland than in New York? We had supposed that in meats and fruits, dairy products, garden yield, etc., she was not so greatly dependent on this State as the Oregonian confesses, for it says all, or uearly all, the products named are brought into Oregon and Washington continually and in large quantities from California. Yet the classes who might produce them are, it adds, among those who talk about hard times and express dissatisfaction with the country. The causes are not remote; they reside in the fact that the people have not engaged in diversity of agriculture; because they have been wheat mad, and because the methods of farming are faulty, not to say slovenly. Our contemporary goes so far as to declare them improvident, slothful and lucking to intelligence. Oregon is a grass country; its ranges are not very greatly narrowed as yet, and it should have plentiful mest supplies and dairy products; it is as well adapted to fruit as any of the States of the north Mississippi valley, or of the north Atlantic seaboard, and for garden products it is the superior of the States of the Rocky Monntains. In a country processedly agricul-tural, where the supply of such products ia not equal to the demand, there is something radically wrong. While the Oregonious are finding out exactly what this is, while they are diversifying their agricultural pursuits and correcting their methods, it will be well for incoming immigrants to note the facts and reflect that California is supplying Oregon as stated, and in that fact there is suggestion of reason for locating here where the climate is superior, the advantages broader, the market certain and earth products for home consumption more nearly equal to the demand.—Record-

## PRODUCTIVE LAND LITTLE KNOWN. The valleys in the hills which align the city

the west and north are being gradually esttled, as the long-existing prejudice which considered them worthless except for stock or grain, is removed. The removal of this unjust prejudice has only been partial as yet, and that only hy those who have seen what those gentlemen, who have always had faith in these rich and valuable lands, had accomplished, notably Messrs. J. W. Potts, George H. Smith, S. B. Caswell and Andrew Glassell. Each f theas gentlemen have beautiful and productive ranchos, soure of which are hidden away in the crooked valleys in the hills, so that they are not seen from the main road, and therefore the usual tourist or traveler knows little about the capabilities of this section. Mr. Potts raises splendid potatoes and delicious decidnous fruit. Messra, Glassell and Smith devote their attention mostly to grapes, which are doing rsmarkably well for two-year-old vines, and have made a rsmarkable "atand." Mr. Caswell also raises vines and trees on his place in the hills near the rancho Los Feliz. Others ruise an assortment of vegetables crops a year, according to senson—and, being constantly on the place, except when market-ing their products, enables them to keep everything ship shape, and are rapidly acquiring a competency. Similar locations are to be found in many sections, where, as in these hills, the arable land is so accluded as to be almost entirely exempt from frost, and entirely so from strong winds. They are among our most val-uable, but as yet, little known luuds. Any one who will take the trouble to inspect them, can easily accertain their productive value.— Los Angeles Herald.

## MOUNTAIN WHEAT.

The Amador Ledger, in speaking of the wheat in the foothill section, say if turns ont better than in the valleys this season. R. Plasse gathered from 40 acres about 30 tous of the fluest kind of wheat, the karnels being

### AMAGOR MINING ITEMS.

The Dispatch in speaking of some of the mines in the Plymouth district, says:

There is every reason to believe from the reports that the Pacific and Empire mines are yielding more bullion than ever betore, and that the facilitics possessed by these mines for working the nuriferons quartz are better and that the mater supply is so abundant that the mills can be kept remning at full blast nearly the whole year round, and all the work of extractiog the gold from the roch both in the mill and also in chlorinizing the sulphurets will be done on the claims. The parties owning this immense property seem inclined to make everything work to the very heat advantage.

Mr. W. T. Henson has just returned from his

mine, and reports everything about the mine looking first rate, and that a new shaft is being sunk. This well known quartz load is destined at no distant day to aurprise the natives, and Henson is just the man to give it a start, as he is better acquainted

with the range than any one that we know of.

There is a new mine being open d just west of town in what is known as Long John Gulch. This mine is on the south extension of the Vatioian mine, and is owned by the Gruder brothers, and is mine, and is owned by the Grider to others, and the called the Gruder mine. The proprietors say that the rock is very rich. The only trouble that they have lu sinking is the water, which necessitates the running of a pump night and day. We hear that the owners bave ordered suitable muchinery to put on for the purpose of hoisting and pumping out the waler. They also intend putting up a small mill at no distant day.

## THE NEW RAD-ROAD.

Under this heading the Lakeport Bee has the fol-

There is no doubt now as to the intention of the Central Pacific Railroad Co., in relation to the building of a railroad through to Lake county. The company's surveyors, as heretofore stated, have been at mork a long time past, commencing at Vacaville, and had worked through to the vicinity of Middletown, a few days ago. The road will be completed from Vacarille to the Berryessa valley the coming summer, and Berryesea whest mill be shipped over the new line next fall. Just when the nod will be completed to Clear Lake is, however, not so very plain, as there is a difference o opinion on that point, some declaring that the company have no desire to complete the road to the lake nutil the county is more thickly settled, and there is more business; that the road will be built to Berrymore business; that the road will be unit to Berryessa, the line surveyed clear through, and then
matters will rest—the work thus completed standing as a menace to any other company that might
desire to construct a road to the lake. On the other
hand, there are others who believe that the Central Pacific Co. intend to complete the road to the lake Pacific Co. Intend to complete in each within eighteen months. It is very certain that the Berrycess people will have the road the coming summer, as above stated, and hereafter that portion of Nspa county will improve more rapidly than heretofore.

## A NOTABLE MINE.

In speaking of the Mammoth mine, in Amsdor county, the Ledger says:
Senator J. P. Jones and others, have accurred an

interest in this prominent mine. A working capital of \$100,000 is to be put in the treasury, for a aystematic development of the claim. A tunnel is to he run from near the Mokelumne river. This will strike the ledge on the Mammoth ground at a distance of about 800 feet from its mouth. It will then have to rnn over 1000 feet more to reach underneath the present shaft. It will tap the ledge at a depth of nearly 1000 feet. The tunnel is to be of a most substantial character, supplied with a of a most substantial confusion, approximation adouble track. Operations were started on this undertaking last week, and it will be pushed aread with all possible speed. As soon as the ledge is struck, the intention is to put up a 40-stamp mill. The tunnel will take at least six months to confusion. plete, making an average of ten feet per day. Alr compressor drills will be used, operated by water power by means of one of Knight's wheels; the same water that runs the mill, can also be used to run the drills. It is estimated that the construction of the tunnel will cost from \$25,000 to 30,000.

## PLACER COUNTY DRIFT CLAIM.

In speaking of the Turkey Hill drift claim near Michigan Bluff, the Placer Argus 8898; o' the great unling properties of the State. The main tunnel runs into the hill 6300 feet, the gravel and rock being taken out on a narrow gange rail-road in cars drawn by a lockmotive weighing aeveu tons. The mine is well ventilated, and no disconi-75 of whom are employed at the present time, but soon the number will be increased to two or three hundred. A water-wheel 36 feet and 6 inchrs in diameter ts rigged under-ground for the purpose of pumping, etc., and is said to he the largest wheel in the State used in that manner Geological wonders are found in the minn, such as petrified stamps and logs imbedded in the gravel several hundred feet below the surface, and the plain evidences of an ancient river channel,

## SANTA ANA VALLEY.

In speaking of the rupid growth and wonderful productiveness of this valley the Shandard says:

The effort now being muite by the Santa Ana Valley Irrigation Company to raise to the surface the water flowing to waste in the Santa Ana river ts being watched with great interest, not only by diose directly intersted, but Anaheim, Riverside and other places seem much concerned in the pro-ject. All realize the messalty of scouring an abundant water supply for this section at all seasons of the year, and if favorable indications count for any thing, we shall soon have more water than there is land in the valley to irrigate. If an abundant supply is secured, the past wonderful development of this ralley will be ineignificant in comparison with the progress that will be made in the next two years. People who now think that real estate is held too high here will conclude that the people had been simply giving away their land. The "croaker" will no doubt continue to croak but the country will continue to develop and our exports will continue to increase, until a large train of cars will be required each day to take to market the oranges, lemons, raisins, peaches, apples, pears, apricots, princes, herries of all kinds, poultry, eggs, butter, cheese, corn and hogs, that are now bringing a constant stream of wealth into this section. With an abundance of water, thousands of now barren acres will be improved and that which is now cultivated will be made to yield much larger crops than ever before.

### SAILING UNDER FALSE COLORS.

A representative of the Examiner recently interviewed several wine merchants of this city for the purpose of eliciting their opinion on Cahfornia incs. We publish the tollowing:
"I suppose theu," said the reporter, "that the

"I suppose theu, sant the reporter, "that the taste for French wines is largely a fashion."
"Altogether so," said Mr. Lachman, "as I cau show you in a minute. Come with me." He lead the way to the back of the warehouse and pointed to stacks of cases bearing the aristocratic brands of Chateau Lufitte, Medoc, St. Julieu, Chateau Marganx, Chatean Mouton, Chateau Lenville, and half a duzen other castles: "The cases, the hottles, corks and even the wrapping-paper all come from said Mr. Lachman, gayly, "but every drop of wine there is pure, unmixed California wine. Those cases go to dealers, are sent all over the country and used by the best class of consumers as high-class Freuch wines. I don't want to do this; no dealer wants to do it; but the trade requires it. I would rather all these cases were sold as California wives, and Mr. Simunia can digest this fact at his leisure—that the best wines of our State are sold as the best wines of his country, and no one is able to distinguish the difference.

Mr. Simonia is the Frenchman who made some untruthful comments, regarding California wines, recently in an Eastern paper.

## A VALUABLE DISCOVERY,

The Los Angeles Hern'ld gives, the following account of the Pinacate gold mines:

The gold mines of Pinicate, San Diego county, recently mentioned in the Heroid, was first worked in the year 1881, when an alleged coal mine was located close by, with the intention of using the output from it to run the quartz mill. The prospect did not pan out well, and wood from the mountains has been used instead of the coal. however, the old ledge of conl has been developed, and a piece of nearly pure bituminous coal as big as a water bucket is now on exhibition at Sau Bernardino. The tunnel in the mine is in 56 feet from the mouth of the incline, at which point the veln of coal is five feet and eight tuches in thickness. It is seven miles from Pinacate station, on the California Southern Railroad, is called the Cheney mine, and is owned by E. Davis of Sau Bernardino. Near the mine, which is on the San Jucinio ranelio, is found an extensive deposit of gypsum, which, together with cost, afford the means of manufacturing that very necessary article, plaster of Paris. Altogether, this appears to be one of the most valuable discoveries in Southern California.

Experiments have fully demonstrated the fact that English trainuts can be anecessfully grown in almost any portion of Ventura county. we have apots more favorable to the growth of the not than others, but it has been pretty conclusively provon that they do well in any portion of the county where anything can be grown. Ventura avenue is particularly adapted to the growth of this flue nut, some of the most healthful and prolific young orchards in the Blute being situated there. And furthermore, it has been fully and thoroughly demonstrated by those in the lustiness that it pays to raise English walnuts. Certainly there is no immediate return, but after six or seven years there is an annual and increased return for a lifetime. It The Resources of California is the best paper to send to your friends abroad.

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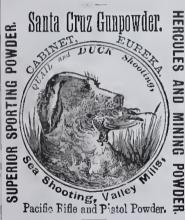
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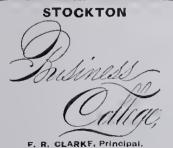


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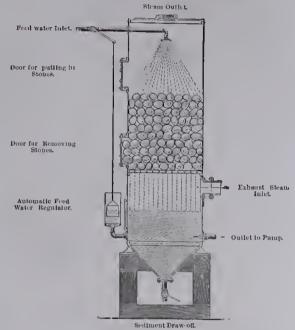
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W. L. CHALDISIES, Special Agent and Adjuster. SAN JOAQUIN VALLEY

Its Post and Present-Prospects for the Future-What the Valley Was, What It is and What It Will Be.

Under the above heading is correspondent of the Duly Ensuing Post, of this city, lurinshes that paper with the following letter. It shows what in important factor the railroad has been 11 scribing pp and developing the resources of the State:

Turain Cirv, August 3, 1883.

The repabilities of the San Jonquin valley for producing staple articles of fond were comparative.

ly unknown until the wale expanse was traversed lengthwise by a railroad. Before 1871 the section of this great valley devoted to wheat culture dul not extend far heyond the similier boundary of Stamstans county. Along the San Joaquin river, as lar up as the mouth of Fresnoslough, there were hillo farms where the hand was good upon which wheat for the San Francisco market was grown, but the area was small and the product light. but the area was small and the product agait. The individual changed the business aspect of the valley, and, to a great extent, the vocation of its residents. The broad level of sheep walk and cattle range suddenly acquired a value that the oldest inhabitant never thesemed of investing it with. In answer to the question of why he did not acquire possession of a part of Kern River island at a time when the best land in the upper part of the valley could be half for a song, ex-Senator Tom Fowler, of this county, one of our oldest residents, and one of the keenest, lareseeinghusiness men in the Slate, re-plied that in thuse days he had no blea that the county would ever be fit for anything but a stock range. "But," he went on to sny, "the railroad has doubled, yes quadrupled, the average value of overy acre of land within an area of 300 miles in length by lifty in walth." There is nothing extrav-ugant in Fowler's statement. The most incom-promising baler of everything that side develop-ment and improvement must admir that within a decade the railroad has increased the population sud-wideaed the area of cultivated hards of the San Joaquin valley beyond what could have been expected during a buff contany number the old slow and expensive modes of framportation. Midesio, Merced, Tulare City, Fresso and a dozen or more smaller towns and villages in the valley, with their aggregate population of 12,000 or 15,000, and their wealth of several millions, are the creations of the railroad. But for it these towns would have had un existence, and but a small proportion of their people and prinerly would have found an abiding place there. The expansion in value is only cir-cumscribed by the mountain ranges that bound the great valley. Where the overland stage dragged its great valley. Where the overland stage dragged its slow length along between the San Luis ranch and Behersfield, the traveler saw but few loonses besides the stage station buts, and once out on the plants bis chance for finding longues in trees, bnoks in running brooks, sermons in stones and good in everythidg, was so shan as lo make if ne chance at all, for be it known, there were no trees, no bronks, all, for both known, there were no trees, no bronks, very few stones and good in nothing. With the railroad came a change in the inspect of the valley which is growing more marked year by year. Now, in many lucalities farmhouses dot the expanse as far as the eye can reach and around many of these houses there is a small grove of trees, generally encalvolus of artificial growth. The number of houses is steadily increasing and the area of loh of houses is steamly increasing and the area of lott age is rapidly widening. Before the railroad there was nothing of this. Should we have had it now bad there been no railroads? It limb it. The man whose home is in a sheep herder's wagon, does not build houses, and the man whose value is gauged by the number of cattle he may graze upon it does not plant trees. The railroad has made it possible to turn the sheep-walks and cuttle ranges into farms, and ont of this possibility has grown the probability that in a few years good crops from these farms can be relied on with as much certainty as the coming of the seasons of scedume and harvest guaranteed by a how of promise. It was but a little while ugo, as we all remember, that u dry acason meant a total less of the imstandama's isbor in the San Josquin valley. Light rain was the handwriting on the wall thurneeded no interpretor. To the farmer it said, you will have no harvest, and to the stock raiser it said, you must hasten to the mountains if you would save your flicks. From this your of 1883 onward a total failure of erons in this valley will be impossible, and each year will decrease the propertion of loss from drought. There is water enough thowing into the valley, even in the dryest years, to sufficiently irrigate every tilliable acre instween the Sterras and gate every tilling are invised in extension to Coast range. The requirement is economic utilization of the shipply. Already the facility for artificial irrigation guarantees, so far as abundant moneture will guarantee, an animal crop from many thousands of acres of land in this valley. These facilities are increasing in a ratio that promises an annual addition of thousands of neres to likes an annual addition of Thousands of neres to the importance of the section. One need net be a prophet to foresee the cowing day when a dry season will not materially reduce the aggregate wheat, who and fruit product of the great San domining valley, and fruit product of the great San domining valley, and fruit product of the precicince of the sings to anticipate the time when a valley that, before the artificial, found accupation for but a few thousand people, will give homes and employment to a mil-time of the second to th

lion and produce the food of several millions. The railroad brought us a market for our products, and that we may make the volume of our products equal the demand of that market, we shall go on making artisinu wells, digging canals and building reservoirs until we have a surking fund of moisture upon which we may draw, without fear of publish, against the demands of the dryest season. All this can not be done in a day or a year. It is the work of time-and how you know works wonders. The change between the time when there was no rail-road and now is wonderful; but the change in the value of our lands, in the volume of our products and in the general appearance of our great valley, at the close of the uext decade, will be still more wonder]u], TULARE,

### DLIVE CHAPPINE

We are glad to note that the growing of olives is again attracting public attention. From time to time the Hernhi has brought the subject before our people, for we have always believed that clive oil will be one of the staple productions of our southern country. Americans, as a rule, are too incpatient of delay of any kind, and it has been objected to the clive, as to the cork oak, that it is of a growth too slow to make its cultivation a paying invesiment. This, bowever, is not true in fact, trees which have yielded an annual return to Mr. Cooper, of Saula Barbara, of \$2,200 per acre are but eight years old. This is a very good return on the original outlay and expense of cultivation. And, as the tree grows other its yield is greater, and the product is of a better quality. Some of Mr. Cooper's oil was exhibited last year at our an-mulal fair, and was probaunced, by competent indices, to be of superior quality. It was certainly judges, to be of superior quality. It was certainly better than any imported from abrual, for not a drop of virgin olive oil over comes to this country. What we do get in adulterated with the oil of cottenseed, which we export in great quantities for that use only, the oil of turnip seed, and other vegetable oils. Most of the comers among us, seeing a few musty looking olive trees in an out-of-the-way corner of some fence, conclude that it will not do to cultivate it. Now cultivation is just what the trees reterred to do not get. Any tree which is neglected will not do well, and the clive responds with notable quickness to kind treatment. It can grow with very little irrigation; indeed, in some soils, and after attaining a certain growth, it wants none except what falls from the sky. But no man expects an orange free or a vine to yield fruit with-out cultivation, and the olive needs it also. In the south of Enrope, generations of the same family have lived on what groves of twenty and thirty olive trees have produced to them, for the free lives for centuries. Having reached the shore of the l'acific at lest it is probable that Americans will lose that hereditary unrest which has characterized them, and that hereafter men will be content to live and die on the farms that were their fathers'. The rancher who plants the olive will be wise, and his children's children will revere his memory,— Los Ampeles Herald.

## WHAT WORK WILL DO.

The two Woolf brothers, of this county, deserve commendation for what they have achieved on a few acres of land in Upper Placerville. They came here about nine years ago without any money to buy a good place, and had to be contented with a few acres of a very undesirable rocky billside covered with brush and small trees. Despite all these difficulties, they went to work with a will, dug up the rocks, carried them down into the cuts, cleared of the brush and seen had some of the land ready for cultivation. They planted trees, small fruits and vegetables. They now have about 600 young fruit trees that have been bearing four years, and from which one year they sold \$250 worth of dried and \$150 worth of green fruit. Every year they cleared more land till new they have fifteen acros brothers and the law the same to inquiries the brothers said that their strawberry and outon bedwere must profitable. They also realize much from entrants, blackherries and watermelous. An inspection of all these beds shows that the brothers are carnest workers who understand their business. Their onion hed is about an eighth of an acre in exlent. On this small piece of land they reise on an average two tons of omens every year, which at \$35 a lon would amount to over \$500 to the acre,—ElDurado Republicum

## CALICH DISTRICT.

The Calien Print says: Mining men, who looked upon our camp a year ago with distrast, have somewhat changed their opinions, and scknowledge that the names have a brighter prospect than they supposed they would have by this time. 

## SOMERTING ABOUT SHASTA COUNTY LANDS.

An old resident of Shusta county writes from North Cow Creek to the Redding Independent as follows, which will interest immigrants in search of cheap land:

There are thousands of acres of red land in this county that are us good as can be found in any part of the State that will produce as fine fruit as is found in the United States. A great deal of the land will grow excellent grain, wheat, rye, burley and outs, all of an excellent quality.

We will admit that part of it will not yield as

much per acre as black for buttom land, but one must cansider the difference in price. Good bottom land is worth from \$10 to \$35 per acre, while the red hard can be obtained by paying 822,50 for a homestend of 150 acres or by paying to R. R. Co. \$1.25 to \$1.50 per nere, who will give a long time to make the payments. School lands, which are sections. Bi and 35 in every township, can be bought from the State at \$1.25 per acre, in tracts of 320 acres. We are safe in stating that there is 50,000 acres of Government, Railroad and school lands vacant in townships 31, 3 W., 31, 4 W., 32, 3 W., 32, 4 W., all of which lie east and southeast of Redding. A very large track of this lies butween Stillwater and Little North Cow tracts of 320 acres. We are safe in stating that Creek. Most of this will make desirable homes, close to market, and in a good healthy climate,

Another large body of it lies east of Little Cow Creek and Oak Kun. A great deal of this is broken, but a number of excellent locations can be found. There is also a track lying between Stillwater and the Sacramento river, directly east, southeast and northeast of Reddidg, which offers to settlers inducements equal to the aforesaid montioned tracts. It will pay energetic and industrious immigrants to come to Shasta and look at her lands before going elsewhere. I do not wish it understood that I have spoken of all the vacant lands in Shasta county, but only a small fraction of the vast tracts, unoccupied in this county. Fall river valley, about 60 mi es northeast of Redding is a beautiful one and the day is not far distant, when it will all be settled up. The soil in this valley is for the most sandy, loose and allavial.

There are several other small valleys within ten and trienty miles of it where good homes could be obtained. All these valleys in this county are well watered and supplied with plenty of good timber near by. The mountains are raugh but covered with an excellent quality of timber interspersed now and then with level tracts which make very fine garden spots.

Another fine tract lies east of Millville which is suitable and very desirable for furming and grazing jurposes. This entire county is well watered by numerous mountain streams the majority of which afford water the entire year. Many of these streams, pure as crystal, abound in mountain tront, salmon, etc.

The people as a general thing are industrious, euterprising and ever ready to welcome the new comer who is willing to take hold and improve the

Good schools exist throughout the country in session from six to eight months in the year. also find here as uearly everywhere else, a few squatters, which are of no herefit to the community, but as the country settles up with good working people, they are sure to have for more distant parts, to the country abounding in wild hogs, cattle, etc., where they can live without work,

## GOOD QUARTZ.

Quartz prospecting is all the rage on the East Branch, and some good ledges are being opened. The work on the Halstead ledge, on Rich Gulch, proves that it is rich and of vast extent, and several other fine croppings have been found in the same locality. On e day last week Mr. McPherson, of Meadow Valley, found what is supposed to be a northwest extension of the Halstead ledge, on the Deadwood side of the mountain, and he h quartz which shows free gold and is very rich, Fred. Lewis has some good quartz, and the indira-tions point to a large and lively quartz mining camp at that place in the near future. Plumes

We have no doubt that Plantas will prove one of the lest quartz mining countries in the State when her resource in this direction are developed. Several years ago while we were visiting Rich Bur Several years ago while we were visiting Rich Bur we were shown, by Richard Irvin, about fifty pounds of gold-bearing quartz, not quartz bearing gold, for we estimate that there was more gold, in weight, than there was quartz. The specimens were taken from croppings found on French creek, not fur from the lant. As to whether the main ledge was ever discovered or not we have never learned. The many lears and river bed of the Paut Branch have been very rich, and a great East Branch have been very rich, and a great many quartz ledges crap out between Soda bar and the junction, which are undoubtedly rich in gold. Quartz mining in Plumes, like nearly all the counties of Northern California, has been kept in the back-ground for the want of capital to prop.

erly prospect, but now that there is a large amount idle means in San Francisco we have no doubt that the owners of some of it will som seek Plumas county as a base of operations. If one-quarter of the money that has been paid in wildent speculatinn in the silver mines of Nevada had been spent in developing quartz in Plumas county there is doubt that the output of gold would rival in value that of the silver yield in the whole State of Neva-There are several well-paying mines now be ing worked in Indian Valley, and it would be idle to say that there is not just as good quartz in other parts of the county. The richires of the many river hars and the occasional finding of rich rock in the hill sides all goes to prove that quartz hearing gold abounds throughout the entire county.

Now that railroads are pushing their way into Plantas county her resources will saon by brought more praninently before the people, and the arreled capital for development will not long be manted, and when this cames a bright and prosperons future will be open to her. Overitte Mer-

## PROFITS OF GRAPE CULTURE,

R. B. Blowers, of Woodland, in an interview with a newspaper reporter, gives some interesting statistics concerning the profits of grape culture, He snys:

I have made 250 boxes of ruisins from one acre of vines, worth from 82 to 82.50 per hox. Of shipping grapes the yield will average ten tons to the acre, and four tous per arre of wine grapes. Table grapes bring \$40 per ton; wine grapes from \$20 to \$30 per ton. For shipping, I use the Emperor, which yields as high as fourteen tons per acre.

Preparing the ground is but a trifling cost prob-\$1 per acre. I estimate the first cost of planting a cincyard all the way from \$20 to \$40 per acre, including the first year's cultivation, irrigation and raoted vines. A vincynrd, if hamiled with judgment ought to come into profitable bearing in three years. I have a small putch of send-less Sultanas three years old. I got five tons for the third year, ten tons for the fourth year, tradre tons for the fifth year and seventeen tons for the sixth year. I do not believe that grape growing will be overdone for a great many years. aver grapes become improfitable for raisins, we can feed them to our pork, and then raisins will soon he in demand ngain. Grapes will fatten park faster than any other known food. Hogs fed upon this food will increase from two to three pounds per day. The greater portion of our northern grape growers do not use irrigation at all. In Sonoma and Napa valleys, and in the Vacaville belt, they do not arrigate. But in that part of the State where the annual rainfull is small, say in Fresh and the great interior valleys, they have to resort to irrigation. I think I can safely say that the profit on the brtter class of raisins is at least \$100 per acre. For the past six years the profits have averaged over \$100 per acre. I have a neighbor who has five acres. He has made as high as \$1,000 clear profit from the five acres, and hired all his work done. I can state approximately that I be-lieve there are about 100,000 acres of grapes at the present time planted in California, but not that many acres in bearing - nearly half is in near The greatest success, so far as I have knowledge, must be credited to small vineyards, well cared for, as against large viuyards. I think this is the universal judgment of vineyardists gunerally. We can not expect to find any soil in the world to yield well year after year without fertiliz-ing. The seedless Sultana has yielded no 44 tons the acre, but it would be proposterous to expect it to keep that up without fertilizing the soil. If the soil is properly fertilized the view will bear of

## IMMIGRANES.

The effect of cheap and rapid transit from Southern Europe, via New Orleans, must soon bring to Southern Palifornia munigrants to vibon our vl)-mate will be as grateful as that they leave, and who are skilled in vine-dressing and wine-making, as well as in other branches of linshandry which have found a congenial home among us. The loss of the immigration now going by us to our north ven neighbors will be more than compressed by the acquisition we shall receive presently from France, and Spain and Italy. Les Angeles Herald.

## A LOGGING RAILROAD.

The Prackee Lumber Company, says the Republican, are building a narrow-gauge railroad np Washington Creek, about half-army between up Washington Creek, about Indiarny between Truckee and Taboe City. They now havenbout a half mile completed, and will cannonce logging over it next week. It is to be built back about a mile and a half from the river.

## GOOD YIELD.

Thirty-four thousand dollars was realized from the last two months' crashing at the Marguerite quart mass. Domnieville Messenger.



BROAD GAUGE,

## TIME TABLE.

Commencing Monday, Sept. 3, 1883, And until further notice, Passinger Trains will leave from, and arrive at San Francisco Passenger Depot (Townsend St., briween Bd and 4th streets) as follows: DESTINATION.

0. F.	8. P.
8591 A. M.   1930 A. M.   10:40 A. M.   10:40 A. M.   475 P. M.   475 P. M.   475 P. M.   4810 Meulo Park   111 45 P. M.   111 45 P. M	6:30 A. M. 8:10 A. M. 9:03 A. M. *10:02 A. M. *3:30 P. M. 4:50 P. M. 6:00 P. M. 3:7:50 P. M. 1:8:16 P. M.
4170 P, M	9:03 A. M. *10:02 A. M. *3:30 P. M. 6:00 P. M. † 8:15 P. M.
Sour Mail ( Salings and Monterry (	*10,02 a. w 6.00 r. st.
Biom P M (	*10 92 P. M 0:00 P. M.
Santa Cruz	*10:02 A. M. 6:00 P. M.
10:40 a M. [   Soledad and Way Stations ]	6:00 P. M.
	8:43 P 31.
*Sundays excepted. †Sundays only. †The Saturdays only.	atre train,

Stage connections are made with the 10:40 A. M. Train, except Piscapeno Stages via San Mateo, and Pacific COMBRESS SINGS Slage via Santa Clara, which connect with 8:30 A. M. Train.

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For points un Southern Divisions und the East, see C. P. R. R. TIME SCHEDULE.

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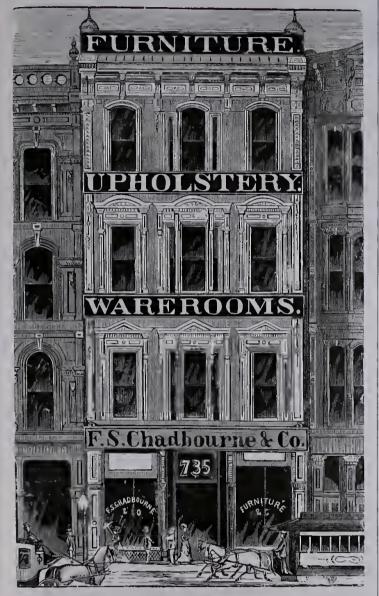
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## YOSEMITE FALLS

Among the immunerable descriptions of this wonderful cascade, we think the following, taken from Blackwood's Magazine, is, at least as good as any of them:

or the Indiana reverence the heautiful Yesemite Falls. Eren the white settlers of the valley cannot resist their influence, but speak of them with an admiration that amounts to love. Some spend the winter in the valley, and they told me that if I could see the falls in their winter rolles, all fringed with icicles, I should gain a glimpse of fairy land. At the lose of the great full the fairies build a real ico paluee, sometimes more than 100 feet high. It is formed by the everfalling, froming spray, and the bright swe gleams on this glittering palace of crystal, and the falling water striking upon it shoots off in showers, lik myriads of apals and dimnonds. But when I first heheld them, on a bright May morning, not an icide remained, and the fulls ivers in their glory. I had never dreamed of anything so lovely, confess that I am not a keen lover of waterfulls in general, and am often inclined to vote them a love, when cuthusiastic people insust on leaving the these sunding to go ever so far down a dark, dump ravine, to see some foolish drildet. But here we stand in the glorious sunlight, unung pine trees a couple of hundred feet in height, and they are pigmies, like ourselves, in presence of even the lowest step of the stately full which lowes and dashes from so vast a height that it loses all semblunce to water. It is a splendid bouquet of glistening rockets, which, instead of rushing heaven ward, shoot down as if from the blue campy which ems to touch the brink, 2,700 feet ahave us, Like a myriad of falling stars they flosh, each keening its semmete course for several hundred feet, till ut length it heads with 10,000 more in the grand avaluache of frothy, fleecy foam, which for-erer and forerer falls, builing and raging like a whirlpool, unong the large black loudders, in the deep cauldron below, and throwing lanck clouds of noist and vapor. The most exquisite moment occurs when you reach some spot where the sun's rays, streaming past you, transform the light vapor into brilliant radinbow prisms, which gird the full with civid iris bars. As the weter rockets flash through these ra light helts, they seem to carry the color onward as they full; and sometimes it waboy knows not where to rest, but forms a maring eidmin of radiant tricolor. So large a body of water rushing through the air naturally produces a strong current, which, passing between the face of the rock and the fall, carries the latter well forward, so that it becomes the sport of every breeze that dances through the valley; hence this great column is forever vibrating from side to side often forms a semi-circular curre. The width of the stream at the summit is about 20 to 30 feet, but at the base of the upper fall it has expanded to a midth of fully 300 feet; and, as the wind ourries it to one side or the other, it plays over a space of about one thousand feet in width of aprecipitons rock-face, 1,600 feet in depth. This is the height of the mager fall.

## A VALUABLE MINE.

The recent rich strikes in the Hartery mine and the Perrin mine have given new stimulus to the mining interests in that section of the district, and shortly the Consolidated Lone Tree will resome work. The property is situated at Forest springs and is a location of 3,000 feet, embracing three sequences ledges, one of them being two and enchalf feet thick and the others averaging eight inches. There is a tunnel on the property 700 feet in length, which cuts all three ledges, and also several shufts sunk down, which cut ledges. Pan washings from one of these shufts yielded from \$2,50 to \$15 to the pan, and much of the gold mas in large lumps. About \$9,000 have already been expended on the property, and, with it is the opinion of miners that there avoid he maying noine there. Menure now at nork putting the tunnel in order preparatory to going to work. Some rock recently taken from the two and one-half-feet ledge shows free gold.—Gruss Valley Vallings.

## NOW AND THEN.

In 1816 one lushed of corn would hay one pounds of mails. In 1883 one bushed of corn mill buy fifteen pounds of mails. In 1816 it tack from 20 to 30 dozen of eggs to lay one bushed of salt. In 1883 one dozen will do the same thing. In 1816 it required 64 bushels of larley to buy one yard of broadcloth. In 1883 fee bushels will do the business. In 1816 it required one bushel of wheat to purchase one yard of entire. In 1883 one bushel of wheat will buy 35 yards of a better article. In 1816 a pair of two-don blankets cost as much as a cost. In 1883 a cow will lay from six to twenty, superior in every way.—Pvairie Farmer.

Subscribe for THE RESOURCES OF CALIFORNIA.

### SILK CULTURE.

There is no reason why, among other profitable industries prosecuted in this State, that of silk raising should not become prominent. The climate California seems to be peculiarly adapted to it. There is no discuse among the silk iverms or mulberry trees of this State There is no jurticular feature of industry which so commends itself to those wishing for some occupation which can be prosecuted at home. It does not require a large capital and it; may be made a demestic industry. It mould give employment to hundreds of children that are now being reared in idleness, that worst of idl schools for the young, and it would be a profitable and not unpleasant accumation for woman who are dependent upon their own exertions for support, yet who shrink from going out of the shelter of their own homes to find employment. The helies in the vicinity of Lash and Stockton, as well as those in other parts of the State, are engaging, this season for the first time in silk culture, and seith every prospect of success. Those icho are unfitted by feebleness or by habit more customed to labor, for the prosecution of anything requiring laborious or continuous effort, would find in this industry pleasant occupation, requiring neither mental nor physical strain, and always sure in its resolts.

The industry is growing in the United States yet the amount raised is a cipber compared with the demand for the raw material to be mmunfacture. The raine of the silk mmufactured in this country amounts to about \$50,000,000 numbely. Of this raiv material used about \$35,000,-000 worth is imported. For this there is no excuse. All of this might be raised at home, and the money he kept here, adding so much to the general prosperity of the country. The American product is not excelled by that raised in any other part of the world, so we would have nothing to four from the results of competition. In Pasadena industry has been introduced on a small scale, but with encournging results, and there is no place in Los Angeles county where it might not be profitably undertaken. The question of a would not be a troublesome one, as the California Silk Culture Society will jurchase all raw material at high prices. The entire time from the hatchmg of the worm to the gathering of the cocoons is two months, -Los Angeles Times,

### TIMBER CULTURE.

Here is a tenso, timely and entirely practical suggestion from a contemporary, which we desire tecinderse, reinforce and make applicable here. It is from the Ventura Free Press:

"Can't every farmer in the county, some Saturday diternoon, when the burses are pretty tired of dragging the gaing plow, give them a rest, and eith all his men devote three or four hours to tree-planting? Any trees-locust, walnut, cyncess, blue gain -anything to break the mountainy of the landscape and make it beautiful, besides furnishing fence-posts and firewood in the near future. Do this, and in two years you will thank us heartly for the advice."

If such a practice was energetically inangurated and energetically kept up, at proper sensous, for a few years, the whole surface of our treeless country would be transformed. The enture of tumber round be followed not only by the good results pointed out, but it could have a large influence in rearding off drouths and in protecting the sources and preserving intact the volume of our streams, which supply the life-blood te our soils and make entitivation possible when otherwise only an arid desert mould stretch its repellant reastes. Let the spirit of tree-planting and timber-culture once take full and complete possession of our furniers and runchers and the good that would follow to individuals and the public in half a decade would be simply incadentable and immeasurable.—Los Angeles Mirror,

## SOUTHERN CALIFORNIA MINING.

As a sample of the profit of quartz-mining, the case of the 1ddbe mine, in Grass Valley, Cal., may be cited. This mine, which cost \$90,000 to get to work, has peold, in diridents, since 1968, forty times the cost of the mine and machinery, and still the old mine yields on as before, and has yielded over \$6,000,000; alout \$3,000,000 of indichlass been paid for laber, and \$3,600,000 is diridents. Such examples of mining prosperity in Nevada county are very good, and will be duplicated in Southern California at an early day. The Oro Grande pays for itself once a week. That is certainly a very good showing for this part of the country. Mining has passed the stage of experiment in Southern California. The mills of Praceate, Oro Grande, Calicu, Providence, Daggett, Wateman and Inyo country, are all doing well, and making most gratifying returns. The berax mines of Southern California are to-day worth \$100,000,000,000, while the solar mines can supply the world with that indespensable article. We are just beginning to learn mining in this part of the country—Cor. Los Augrics, Ervald.





P. H. WENTWORTH, Eilltor and Proprietor,

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## ISSUED MONTHLY.

## BUTTE COUNTY.

Its Towns, Rallroads, Rivers and General Resources Described.

13y our Traveling Agent James C. Krup.1

Butte county, considered every way, is one of the very finest in the State, embracing noth agri. The county seat, is the next in point of size. It is

cultural and mineral lands with a total area of 1,746 square miles, 600,000 acres which is covered with a growth of magnificent timber. It is hounded on the Tehama county, east by Plumas, south by inbi and west by the Sacramento river.

The sail of the valley portion is a rich black adobe, which is very productive, while that of the funtfulls is red hand, especialadapted to the grape and every kind of common to the Golden State. The early min rs considered this land worthless, but experience has demonstrated the exact opposite to be the real case, and at the present time innumerable ranches of the very choicest fruit are scattered throughout this whole foothill helt. Between Marysville and Chico the writer noticed thousands of near trees, loaded down th ripe fruit, growing out upon the open plain with-out one particle of irrigafron, and that, too, in this comparatively dry year; and he was told, by old settlers, that there is no nuccessify whatever for irrigation in any part of the

California and Oregon Railroad runs direct through that portion situated on the east sale of the Sacramento river, and another railroad (20 miles in length).

connects Oraville with Marysville.

connects Oroville with Marysville.

Buttle county has quite a number of beautiful towns, at the tread of which is Chien, with a population of about 5,000. Next comes Oroville and then Biggs, Gridley, Live Oak and Cherikes, and the nilning localities - Banger, Wyamlotte, Forbesloudisin Home, Hoghwa, Lovelochs and Besides there are several smaller towns, among which are Dayton, Nolson, Nord and Dur-

## Chlen

Is the largest, most important and one of the threst It contains many places north of Sacramento. vule and elegant streets, shaded on cittor sale by tall trees of many years growth. It also has a considerable number of very time residences, built in strictly motropollian style, which, with the chigant equipages that act be he seem duly driving along to broad thoroughfares, causes one to almost forget for the moment that it is so far removed from San Prancisco or Sacramento.

the Lumin standing at the fourt, while the Chica Dalairian the very popular with the average traveler, who seeks plenty of good food and low prices Chico has several fine holels and restaurants; the Lumin absorbing at the front, while the Chica

There are many large stores with very heavy slocks goods, and two moneyed mentalians, manualy tha Bank of Chico and Bank of Butte. Gen. John Bilwell has a splendid floor mall of great capacity, while the Sierra Flume and Lumber Company has an immense lumber yard filled with every description of building material, shingles, lenong, etc.

The lown is lighted with gas, having its own gas works. There are also iron works, carriage fac tories, a fruit trying establishment, brenory and soda works. There are two newspapers the (Chrunwie and Record), several public, as well as grivale, schools, presided over by a corps of qualified teachers.

Business is decidedly good, it being the distributing point for a very large section of the mining country belonging to Plumas country. The lower is constantly growing, and is even now one of the prelifiest places in the whole State.

Durham is a small hal flunrishing town some seven miles south of Churb.

Chernles is the great mining center of the county. It has several hotels plenty of subnums, blacksmith shops, etc. Its mining resources are very great.

Within the past four years the people of Butte county have awakened to the fact that their section is among the very heat in the State, and in a few years the viticultural interests will be of immense The mere fact that the most splendid Birtlitt pears can be grown there, without irriga-tion, settles the whole business, and the great interiat that is now taken in fruit raising and has been for a few years pust, will shortly bring it up to the very front rank.

Well may the riffgens of this favored county he proud of its splendid placer, quartz and deep mines; a magnificent hell of fruit country (accoup to none in the States, extensive forests of sugar

OLIVE CHUTCRE.

Same of the most experienced fruit raisers in this section, as well as those in other parts of the State who have studied the subject scientifically, agree that the footbills are pre-endmently adapted to the successful cultivation of the alive. ing the enbject of olive cidlare the Examiner SAVE:

With the remarkable variety of fruits which Califurnia possesses, the increase of the cultivation of the alive will complete a list which no other com-try can exhibit. We apparently combine all classes of production, and the climste possisses a vilality and adaptability unknown to other regions either on this continent or beyond the sea. In Italy where the dive reaches its highest state of cultivation, the characteristics of sull and climate are strikingly sluilar to those along the foothills of Southern California. The tree is vigorous, and, while singularly sensitive to frost, will endure wot

and cold without any appreciable influence. It thrives, however, best even temperatures, productive qualities excel those of any other fruit. It lives almost forerer Along the shares of the Mediterranean are groves that are contemporations with the Eurpire of Angustus, and are said to have sheltered in their quiet shade the Hims who overran the country and sub dued the republic. The trees are slow in growth, but once arrived at maturity the senson will be a strange one which will prereturn for the careful attention of the husbandman. No more profitable industry can be conceived, if, as alleged, the olive will grow m a large area of California soil. That, of course, is a matter which actual experiment can only determine. But the possibilities which the culture of the tree may develop are certainly suffic-iently inviling to enlist tho ospital and enterprise of the fruit-growers of the Golden State.—Placec Herold.



THE OLD MISSION CHURCH, NEAR MONTEREY-BUILT INT 1794.

situated on the south bank of the Feather rivor. some 25 miles south of Chico. In t856 it was one of the livelinst places, for its size, in the whole State. Placer mines surround it on every side, while the intervening land, between it and Marysville, is especially adopted to raising wheat and other grains. It less a population of 2,500 and contains many fine buildings. The Court house cost \$25,000. The United States and Union are the two principal hotels. Like Chico it has expensive gas works and the finest water works in Northern California, with a twelve-luch main and 150-loot. Oroville has a splendht flour until of 150 barrols per day capacity.

There are several stage lines running to the sur-rounding towns, which, together with its placer mines, give it the true old time look, so pleasant to the memory of th e miner of the early days.

Biggs and Gridley are bull lively and growing places, with sinde streets, had out at right angles, lined with sinde streets, had out at right angles, lined with sinde trees and containing very the public and private buildings. Each, loo, has its large grain wareholds and railrand deport; harmonic mustilles of wheat, in gaths, each and the containing mense quantities of whent-in suchs-can be s on every hand.

and pitch pine and an area of 200,000 acros of rich, level valley land, adapted to all the cereals; rail-road communication with the whole Union, and a most delightful as well as thenltby climate; educa-tional facilities of the highest order, and churches of every donomination; an unusually heavy crup of the very finest quality of wheat this present on, with an almost absolute certainly of being able to raise one every year, and all this put logother, reader, constitutes the improvements and rosources of Butte county.

THE EL DORADO DISTRICT FAIR.

In speaking of this Fair, recently held at Grass Valley, the Novaila daily Transcrept, saya:

It was a success. Some of the departments, notably the mechanical, stock and poultry displays. were not as well filled with exhibits as could and should have been the case, but such as event as a fair was a novely in this part of the State. Great improvements may be looked for another year. The management of the business has, in all its details, been admirable, reflecting the highest credit upon the monthers of the board. Messrs. Dibble, dierts and Sthiger, of this county, have displayed especial energy and thet, and they have been well supported in their efforts by most of the citizens of Grasa Valley and the county. RICH MINES

The Los Angeles Times makes the following meu-

tion of some of the principal mines of the famous Calico District, San Bernardhin Comety:

Calico District, San Bornarilina Conicty, Mi, J. A. Whitmore, of Calico, showed a Tones reporter Friday, some specimens of Calico oro. One chinak from the Invincible, that presented a berniaful appearance from the oxide of from with which it was covered, assayed \$6000 in silver to the ton. By scraping it with a kuife the horn silver could be easily distinguished. A lot of waste rock and dust from the mainel of the same mine assayed as high as \$200. Another piece of ere from the simic nine, but a very rick specimen, is world \$3 per pound, just as it is in the rough. Other chunka were antimony, zine, lead and silver. There was a sample of the Garfield time, owned by Mr. Raymond, of the old-time first of Raymond & Ely, so well-known to all old Californians. It was a portion of fourteen tons sent to San Francisco, for which Mr. Raymond received the sing amount of Mr. Raymonl said when he first wont to Culico that he was going to make his "stuke." and the report is that he is doing so. One lot of rockdust was fairly black with horn silver. mino is down three hundred feet, and bus richest of orc. The Burning Moscow is a good mine, but is in liligation. All the mines there are good. Mr. Whitmore is at present Superintendent of the Invinctble. He was part proprietor of the Tueson Cutzen till he came here.

### A HUTTER RANCH 7,000 FRET ABOVE THE LEVEL OF THE SEA.

A representative of the Index recently visited the famous Bear Valley, about ninety miles east of Sau Bernardino by wagon road, and about half that distance by a trail through the monutains by way of the Sauta Aua Raver. The trail leads past the celebrated fish poud of Captain Jenks', and Bear Valley is distant from there about ten or twelve miles over a very steep mountain trail, which in a distance of two or three miles does not contain a level spot large enough for a horse to stand an. Bear Valley is a sort of plateau surrounded by mountains on every side. It is an extensive, beautiful and well watered valley, there being several thousand acres of level land covered with a luxuriant growth of grass. Large herds of cuttle, horses and sheep are pastured on this large range for six or eight months in the year, when the snow begins to cover up the grass and the animals are driven on to the desert or down into the valley Bear Valley was the scene of a great mining excitement ahout uiue years ago, and a town of a humbred houses or more sprang up, but the excitement died out and the town is now descried with the exception of Sam Beard and wife, who are taking core of the property for the owner, E. J. Bildwin, Mr. Beard was formerly a well known mining man, but has sauk out of the recollection of almost everyhody in his moun-

tain retreat. Gus Kuight. assisted by his family, rops a dury and large stock ranch about three miles from the town down the valley. Thirty cows are milked daily, and a hundred pounds of cream are churned at n time. About two tous of butter are produced in the summer season. It is very cold in the valley at night, and a cup containing about an inch of water placed by our correspondent within eight feet of a bluzing fire. that was kept up all night, was frozen in the morning. Snow fifteen or eigteen feet deep lies in the deep canyons of Ohl Grayback, a few miles away. Under these circumstances it is not strange that the hatter is well preserved .- Son Bernardino Index.

### SANTA CLARA VAL-LEY.

In every direction in this valley may be seen the results of cutting no the small farms. Hundreds of homes have slready heen made of five

to twenty acres of land, and this year the process of subdivision is going on more rapidly than ever. At every turo trees are being planted, wells are being bored and preparations made for more new homes. And this is the right use for such a valley as this. It was made for the purpose of providing healthful homes for people of education and refinement, Its fruit trees and vines can be cultivated without much hard labor, and these products can be made to maintain their owners in comfort and independence. It is not too much to say that ten seres of land in this valley, well cared for, will yield as much actual profit as a hundred acres in most other parts of the world. And the work and expense of caring for the one is really but a little more than a tenth part of what is required for the other.

These facts are becoming known in all parts of the country, and thrifty citizens are flocking hither to escape from the dreary routine of hard labor in the Eastern States, to the comparative case and independence offered here. People of intelligence also desire to escape the Arctic rigors of the winter, and the equally disagreeable and debilitating effects of the hot summer. And every one that comes sends for his friends and neighbors. There is no dissuttisfaction, and indeed he must be hard to please who is not suited with the conditions of life here. Of course there are few changes to make fortunes, but wise men know that money is in people.—Sacramento Bec.

no sense to be compared with health and comfort, and they make their arrangements accordingly.—San Jose Times.

### AN ELOQUENT PASSAGE.

Henry E. Highton, the grand orator of the Grand Lodge of California, delivered u very able address upon the laying of the corner stone of the Garfield monument in this city on the 2tth of Angust, from which we quote the following:

Here chivalry and heanty, the distinctive and yet blending types of the North and of the South, are united in the hearty embrace of the great West. We are here in the name of all that is pure and true and self-druying, stern in principle and flexible in manner, in the theories and practices of civilized men. We are here where the softest skies are mirrors of the beanty and majesty of the carth, in bird and flower and fruit, and in the rugged mountains that tower towards the heavens, while their broad bases unite us indissolubly to the Union. We are here-O land, dear to my soul! where life blooms and ripens by almost imperceptible processes, and age itself treshens in the fonutain of a perpetual youth. We are here-O men of many climes, and many industries and many sentiments |- to blend into a pathetic harmony beside the murmnring sea, to collect and distribute through the arteries of the na-tion the rich junces of a liberal patriotism.

## A GOOD WORD FOR PLUMAS COUNTY.

The faith of the people of Plumus in the value of the resources of the county has never wavered in times of great depression and we have seen such in the past, our people held steadily to the belief that a day would come when the attention of capitalists would he drawn to the immense value of our mines and forests, and that faith being well founded we have trusted in God, game abend and feared no danger. It would appear that the day of promise is now near the dawning; our resources are heginning to be known. The Oroville Mercary says:

Quartz mining in Plames, like nearly all the counties in Northern California, has been kept in the back ground for the want of supital to properly prospect; but now that there is a large amount of idle means in San Francisco, we have no doubt that the owners of it will soon seck Plumus county as a base of operations. If one-quarter of the money that has heen wasted in wildcat speculation in the silver mines of Nevada had been spent in developing quartz in Plumas county, there is no doubt that the output of gold would rival in value that of the silver yield of the whole State of Nevada, There are several well-paying mines now being worked in Indian Valley, and it would be idle to say that there is not just as good quartz in other parts of the county. The richness of the many river lors and the occasional finding ROUND ABOUT MOUNT SHARTA.

A correspondent of the Sacramento Res writes as follows from the United States fishery on Cloud river:

I have just returned from a morning's journey through the mountains on the east of the McLeod Cloud | river, and I believe that there is no country on the face of the earth where so many wonders and hearties are crowded into the succe space of territory. Towering monutains, which reach an attitude of from 8,000 to 15,000 feet; heautiful valleys, overburdemd with the richest folinge; sporkling streams, rnshing down the mountain sides with many a heantiful cascade and teeming with piscatorial life; wouderful trees, whose lofty tops are lost in the dizzy heights above; myrads of hirds of pleasing song and gorgeons plumage; here and there a stray bear standing out louely apou some projecting rock and looking down upon you sleepily; numbers of graceful deer, with their little spotted fowns by their sides, now feeding quietly, now fleeing swiftly before you like the wind; now and then a coyote or fox crosses your path and is lost in the dense noderhrush beyond, or it may be that you are startled by the sudden appearance of a lingwildent or lynx, as they swiftly jump from rock to rock in search of a tender rabbit or qual upon which to make their morning's meal; or you hold your Winchester ritle more firmly in hand us you notice the felioc eyes of a Califor-

no liou gazing apent you cantrously, as he swings his long and bushy tidl from side to side, as much as to say, "Beware, or I will spring." The next moment you enter a vale where the ground is carpeted with flowers of a thousand brilliant hoes, and the skies above have no rival, and you find yourself upon one of the many heautifully flats lumiering the river.

Trout fishing is very good here, but the salmon do not take the hinok freely. Tourists are visiting the river daily, and since my last letter we have been bonored by a visit from Seinitor Edmands, Lieut. Arthur, of Vermont, and a Mr. Hodge, of San Francisco. They had very good linek in fishing and landing some very time rainhow trout. A. P. and George Redding, of San Francisco, were also guests at the trout ponds a couple of days last week.



SCENE NEAR CYPRESS POINT, MONTEREY COUNTY,

And we are also here to send out our protest against panperism, lawlessness and crime, and the message of our determination to maintain the purity and the integrity of the Gaucasana race, to which we belong, on the heaving waves of two oceans, types of the restless aspiration of man for perfection in this world and happiness in the next.

## TRUE WORDS.

"There is no surer way," says one of our exchanges, " of promoting and securing the general interest and prosperity of California than by settling small farms upon her rich lands, and huilding homes. When the time comes that pleasant form houses shall dot our landscapes everywhere; when there are fewer estates stretching like empty empires over miles and miles of our hest and most fertile soil; when more land is tilled, and new industries spring up, as they naturally will with the influx of population, then we shall begin to realize the vast possibilities of this section, and see the fulfillment of some of our best hopes." trner words were ever spoken or published, and we regret that we are now analys to credit their proper source, Slowly, surely, the sentiment that hand monopoly and the maintenance of great ranches are an injury to the State, and delaying the development of its resources, is gaining granted among the

of rich rocks in the hill sides all goes to prove that quartz bearing gold, abounds throughout the entire county. Now that railronds are pushing their way into Plumas county her resources will soon be brought more prominently before the people, and the needed capital for development will not long be wanted, and when this course a bright and prosperous finture will be open to her.—Greenville Bulleton.

## CERRO GORDO MINES.

This camp, after several years of torpor, now bids fair with the coming of the railread to resame something of its fermur netroity. Of late very little work has been done on any of the mines and claims in the district, the Palma mine being the only one employing any force, though this force has not been large for the last four or five The burning of the company's tugboat on the lake fast summer greatly interfered with prore extended operations to this urine us well as others on the hill, as the stoppage of the Haw-ley mill prevented the excavation of eres; yet work on the Palma has gone in without stopping, the principal development being through the "Hawley Tannet," which has been pushed in a kindance of over four hundred feet, Mr. Wheeler having gone quitely to opening and developing the mine and paking improvements generally, getting really to compy a full force when the railroad shall have ocenpy ii full reacked the Hawley mill, and there is a certainty of a constant supply of wand, etc. A few weeks ago the greater part of the men wern withdrawn and put to work on some of the loud unlock owned by the Swansea Company, — Inya Independent,

## SENSIBLE ADVICE.

To-day Tehania has a

owners, those who own the rich agricultural and horticultural land, would cut up their broad acres into 50, 80 and 160 acre tracts and sell to men with small means, it would not be five years till Tehama county would houst of a population of 20,000 and a tax roll of \$12,000,000 of property. Lands that are now rated at \$40 an acre would then be worth from \$75 to \$100 per acre. Where there is an occusional tenant's shouty and stuble now, there would the small farm holdings be found, handrals of fine larm houses, gardens and orchards, happy and contented families with all the evidences of happiness and prosperity sarrounding them. We want a larger population, and we never can have it to the fullest extent till large faros are divided into small tracts, and sold to thrifty, industrions men who will improve and beautify their lands, increase their value and thereby add wealth to the county and Slate. Taxes would be less; more school bonses and churches would spring up; manufactories would be built; our town would double its population and Teleama county stand in the front rank of the most rich and prosperous counties of the State.—Red Blaff People's

## LUMBER

The lumber dealers of this city are doing a large business for this senson of the year.

## THE HEST PLACE FOR MANUFACTUR-

We take the following article from a lending editorial in a recent issue of the Durly Evening Post, of this city:

San Francisco is entering upou an ern of manufacturing. With the low rates of interest now preployed in the production of material wealth than hi the risks attendant upon more speculation. The people of California, nutside of their food supthes, have intherto been largely dependent apou Eastern and Enropean manufacturers for the comforts and appliances of civilized life. It took some time for California to effectually carry out a declaration of independence against the East in articles of food. And to meet the prejudices of certain people, in favor of Eastern goods, it is customary even now in San Francisco to sell some California products with an Eastern brand. This is true of hams, bacon and cheese. If people will persist in paying a few cents more per pound for these arti-cles for the privilege of being lumbugged, there is little blame to the merclinnt in making un honest penny in that direction.

Beyond all dispute, the cily and county of San Francisco offers the best opening for the cetablishment of manufacturing enterprises over any other part of the State. Taxes are lower here than elsewhere in California. Sites can be had at reasonable rates. The city being the center of population, manufacturers are always certain of obtaining labor, because here is the place where the unemployed are wont to congregate. It would mudountedly be better for the industrial clauses of

they would not crowd to the cities, but take their chances in the interior, where labor is always in demand in agricultural pursuits. But they prefer city life, and here they remain. Wages, as a rule, are therefore less in San Francisco than in interior cities. This is a factor, unfortunate though it may be, to the parties having labor to sell, which those engaged in manufacturing enterprises can uot lose sight of.

Another point in favor of San Francisco as a manufacturing entropot is its central situation. It has direct water or railroad transportation with every election of the Pacific Coast. It is the chief distributing and gathering point west of the Booky mountains.

The growth of the iron trade in this city specially illustrates the facilities for manufacturing offered here. Fuel is cheaper than elsewhere in California. In certain classes of machines San Francisco competes with Chicago and St. Lonis in the mining terriberce of Arizona and New Mextee, and in the mining districts of the Mexican Republic. New branches are constantly opening in the iron in-

duetry. San Francisco stoves will, before long, become as famous as San Francisco mining machinery. More than one firm is to-day largely engaged to their manufacture.

If any person will watch the number of applications which are made to the Supervisors for permission to erect ateam englies and boilers, he will realize that the city is steadily growing as a manufacturing center. These embrace trades and businesses of all kinds. The manufacture of furnitore has grown wonderfully within the lust ten years. The agricultural implement markers are also gradually converging to San Francisco. It is to the futerest of every property owner to encourage manufacturing industries in our milist, because every one established adds to the value of real estate.

## SONOMA COUNTY AT THE STATE

The following is from the Recard-Union: There was no exhibit in the Pavilion at the State fair more striking and suggestive than that made by Pomona Grange in behalf of Sunoma county. In a small space there was shown by samples the products of that fertite and prosperous county, from corn to millet, from wool to wheat, from fruits to woods, from roots to raisins, from outs to oranges. Bach sample was labeled with the product yield persere, the name of the locality in which grown, the name of the producer, etc. Let us suppose that the 51 other countries of the State had made each as exhibit by sample of their products, what a splendful aposition of the resources of California its State Fair would be. The example of Simona about be followed in at year by all the countries, and it may be easily done. The matter is one this of suggestion and profit.

### TRHAMA COUNTY,

The following correspondence recently published in the Reil Bluif Prople's Chuse, regarding their discenseries Tehran has to offer immigrants to cettle there speaks for itself:

LEWISTON (Maine), August 27, 1883.

ED. PEOFLE'S CAUSE: While reading some papers, I picked up one that came from your county called the People's Cause. I was somewhat pleased with the account of the enterprise you spoke of, and as there are some twenty people here who have some capital and business enterprise, and are talking strongly of going to your State to make homes, I would like to have you answer the following questions through your paper and send a copy of the same to me:

1st. What is the chief enterprise of your place?
2d. What is farming land worth per acre near
ted Bluf?

3d. What pay can Maine men gst at different femuches of business, say clerks, book-keepers, horsemen, teamsters, mechanica cto.?

4th.—The production of the soil, climate, etc.? We want come place to stop. I take this means to inquire, hoping you will pardon my impertincuce; and if you cee fit to give said information it will be gratefully received.

will be gratefully received.
Yours respectfully,
J. W. Vanney,
225 Lisbon street, Lewiston, Me.

The above letter was received instevening and we take great pleasure in answering Mr. Varney's questions, scriatim, as they appear above.

questions, scriatim, as they appear above.

The chief enterprise of Red Bluff is the manufacturing of doors, sash and window blinds, plan-

FARM LAND.

In sp aking of farm laud a writer in the San Luis Obispo Tribune says:

First class land in San Jose valloy is bold at \$200 to \$500 per acro, and if well set in fruit from \$1,000 to \$1,500. This is much more than it would be worth for raising stock or dairying. It is not proposed to cultivate fruit exclusively, or even gener-We must have bread, butter and meat. What we do say is that the climate of Cultiornia is adapted to the raising of fanit, so much so, that we furnish fruit for half the United States, incluiing Canada and the great wheat country of the northwest, taking such things in the way of trade as they will get for their nheat in the European or American markets, Instead of 48,000 acres of land in mee farm with a few wretched hats upou it, where the sheep herder revels in luxury when ne has a snek of ftonr, a piece of bscon and a bottlo of his delightful whiskey, we mant 500 pleasant homes, surrounded by from trees, and blessed with women and children; where the voice of song aball numgle with the hum of hees,

#### LOS ANGELES COUNTY.

Los Angeles ia a privileged county among the many privileged counties of California. Large areas of its land are eminently adapted to the growth of cereals, and its crops of wheat, barley, oats and ryo are all large in area and liberal to the acre, Itis one of, if not the brat, corn county in the State, and some of its cornicelear equal to the best of those of the Western States. In fruite it has no rival. In citrus finits, granges, begons and

THE PROSPERITY OF THE STATES

There is a title in the affairs of communities, as well as of individuals. Man passes away so soon, he has to take this title at the flood to lead on to fortune. Not so the community. It is permanent, and its life knows many titles whose floods lead on to fortune.

Such a period is the present in the history of this State. Our own town and connry has been enjoying a marked degree of prosperity for the past year, or more. Los Angeles has been the cynosore of all eyes but now the indirations are that the ole State is visited by the limpetus of growth and development. Worded I book with no faundiced eye of jestonsy on this spread of the tidal wave of industrial growth to our sister cities, and counties, It is best, every way, for us that this should go on. We therefore read with a great degree of satisfaction in our exchanges from all quarters of Califormia, that the era of stagnation has passed out of sight and that a new era of improvement and cheerful growth is observable in all our horders. It is a matter of self-gratulation with us that the confidence and development u bich recently have marked our city and county have made their pre-sence felt all nour the State. The pean of rejoicing is heard "from Siskiyou te San Diego, from the Sierras to the sea," It is centering in San Francisco and ber several suburbs in a marked degree. Building ta going on at an extent not witnessed before for yours. Holders of property, who have clung to their posessions and refused to bate a jot in their pretentions, were right, is no speculation in this business. That was discounted all round the Bay fire years ago. In the city of San Francisco

the city of San Francisco and her environs only actual improvers and seckers of permanent investiges of permanent can afford to buy. Such buyers are going in and putting their money into a place where they mean it shall stay. It would be hard to find a nook of the Slate where the hour is not marked by a feeling of great confidence, a spirit of enterprise and unmistabable signs of healthy growth.

This is more remarkable if the season is considered. We are now at a period of the year usually marked by great quiet. This and the ext two months are usually looked upon as a period of great activity among the farmers who are too bisy with their crops to tonk a day shead, and as a breathing spell among the mercantile communities who are awaiting the results of reapers and threshers. Capital takes its vacation too, and waits until the dog days are passed before it oasts itself vigorously into the channels of trade. This year an area of more tban an average achievement

tban an average achievement looms up ahead, and there is a [general feeling that we can harily take our summer rest. We all have a feeling that, if we do not move in now and occupy the coigues of vantage which present themselves to the eye, some one may step

in hefore us.

The developments of the coming winter, we feel justified in pointing to with confidence, as something of more phenomenal liveliness than even that which has characterized the immediate past, or than obtains in the present moment. From all present appearances, the State is beginning in her barley harrest, the reaping and in gathering of a sories of crops which will cease only in the last grapes crushed at the wineries and the last nuts shaken from the trees by the changed trade winds of tate November. These will hardly be cleaned up, when the first oranges of the next year's cropbegin to press to market. This series of crops will have very gathered from our fields. The worth will hardly be told in the sum of a round \$1,000,000. Wheat and barley with their products will bring into the State a very large amount. The wool clip is worth at least \$5,000,000. The wine crop will return as \$10,000,000. Furit, green, drted, and canned will enrich us by upwards of \$5,000,000. There are to add to this, honey, hops, httles, sheep, quicksitver, precious and other metats, lumber, salmon, codists, borax and a large list of minor importance which will easily areal in to grand eash to our big figure above.—Los Ingelex Express.



A very rich quartz boulder was found in the Nevada claims at Gibsonville, a few days sides. The boulder was found lying close to the surface, and weightil 165 pounds. It is estimated to contain over two boussed dollars.—Dimenientle Messenyer.



SCENE IN THE EIGHTEEN-MILE DRIVE, NEAR HOTEL DEL MONTE.

ing and sawing lumber for husiness purposes and exporting to other parts of the State and to foreign countries. About 135 men and boys are employed in the feeter.

Farming land near this place can be bought from \$5 to \$60 per acre, according to location and quality. Government lands can be pre-empted and homesteaded within railroad limits for \$2 50 per acre. Railroad lands can be bought for 50 cents to \$20 per acre, according to quality and location; the fifty cent lands are used for grazing and much of it is well timbered.

Wagea for ordinary laboring men rauge from \$1 to \$2.50 per day; mechanics get from \$2.50 to \$3.50 per day, and extra good mechanics get as high as \$5 per day; horsemen and teamster's wages range from \$1.50 to \$3.3 day; olerks and book-keepers get from \$60 to \$125 per month.

The productions of the soil are wheat, barley, oats, corn, rye, fruits of all kinds (including some tropical), grapes, vegetables of all kinds, melons, etc.; in fact anything that can be raised in any part of California. Wheat and wool are the staples.

The climate is as good as any on the Pacific slope, the thermometer seldom falling below zero and rising to an average of about 94 degrees in the Summer.

In conclusion we will any that there are over 800,000 acres of vacant land in Tohana county, a great deal of which will prudnes as line grapes as any in the State, while there are still a considerable quantity of lamb that will produce good grate. Granter inducements are now held out to immigrants who will engage in farming than to any other class.

limes it excels Florida, and in apricots, peaches, pears, and even apples, and some of the smaller fruits, it runs even with any other part of Califor-Los Angeles more than holds its own as a dairy county. It is a great slicep county still, though its wool product is becoming less and less cach year, because the land is becoming too valua-ble to be dovoted to raising wool and mutton. 10 has a number of exsellent mining prospects, and what is better still, a number of mines which are making their owners rich. Even its sage-brush deserts produce honey and wax in abundance, and its naked hills and gloomiest canyons are immense storehouses of petrolenm, and the very mountains, lifting thier precipitous sides from 7,000 to 11,000 feet into the heavens, are great reservoirs of mater, containing a perennial store of water sufficient to irrigate and fortilize thousands upon thousands of acrea of sterile, gravelly, sandy desert, non hearing only cactus and other vegetable rubbish, and make of them the most productive and profitable fruit orchards in the world. Los Angeles as a county so favored that while its cultivatable lands are amongst the richest in the world, its wildest wastes are di rectly or indirectly productive of wealth,—Cor S. F. Merchaot.

### WALNUTS.

There is considerable inquiry of late, on the part of wholesale dealers in San Francisco, in regard to the coming wafmit rep. The crop at Downey and Los Nietor is estimated at 130 tons. The crup in this vulley will also be targo, and the nuls will be of better size than minst. Producers are asking 8% crafts per pound, which is thought, by the dealers, to be rather high.—Sanda Ana Standard.

#### VOLCANO MINING ATEMS.

A very promising gold quartz mine has been recently developed by Mr. Canvin near Volcano.

Mt. Hadler near the old Markley, such a shaft 100 fert in depth on a vein that in parliet days yielded excellent results. All the new ground in the lower purition of the shaft shows high grade one some two fert broad. The numer is sucking but assist-ance to plant hinger machinery than heretofore used, for the purpose of sinking 100 ft. deeper.

The liventy stamps of the Downs mill are running sleadily. The stopes between the 100 and 500 ft, levels are supplying the mill with one of aproxently in examplifie qualities up productive as usual.

It is reported that a gravel mine near the North fack of the Mokelumne river ives sold a few days ago to San Francisco parties. Work in the deepest shirti (320 ft.) of the Amne mine some three miles ahore Volcand, was stopped last Thursday. Since last November the mine has been under the satisfactory management of Mr. Sletcher, an ohi quartz miner identified with the mining interests of Cala veras and Amador for years. The heavy flow of water encountered in the 300 ft, level is stated to be the principal cause of deterring operations there for the present. The Company paid all demands promptly and continues working a few men near

Mr. Much is developing large quantities of ore on the Sproceo mino.

The Volcano Tunnel Co. are now reslizing expeciations of dividends, muder the prosperous su pervision of Supt. Doublille, a practical hydraulic minur. Although the grade of the large thrme in manel is insufficient and the requisite supply of water has been very limited, a large space ground has been swept off to the flume grade, clean-up mill be large The gravet remaining below the thrme grade is all new, rich, and estimated be from 20 to 50 ft. in depth. It is intended to hoist this gravel into the flume during the snomer, sufficient water being at command then for that purpost. - Amador Disputch.

#### SAN EIGRNANDO TO ETIWANDA.

Our neighbor and friend of the Poniona Times took a thu through the valley last neek and sums

At Ontario ire found improvements going on at a lively rate. The new hotel building is rapidly approaching completion, and will be a handsome and commodions structure. Units a number of new residences are being built. Vineyards and orchards have been planted, pipe-laying is being pushed ahead, and the determination to make this a model settlement gives punnise of being successfully carried out. At Cucamougo we found evidences of substantial progress on every hand. The country is being settled up, houses built, and preparations made for tree and rine planting. The Iowa Tract is being rapidly settled and improvements are the the day on avery hand. A broad avenue has been graded from Cacamongo to the mountains, a distince of six miles, and along this areuno a twelve-inch pipe is laid, conveying mater from Cheamongo canyon to the settlements. At the upper corner of each twenty-sere tract the water is delivered through hydrants, tor irrigation and domestic purposes. This will, no doubt, he is prosperous locality. A drive through the valley lying along the base of the Sterra Madre range is suffic ient to courince any one of the great future awaiting this immense territory. It has an empire, and from San Francisco to Etiwanda there is scatterly an acre that is not well adapted to the growth of either grain or fruit. The day is not far ibalant when this immense domain will be densely pupu lated and dolted everywhere with vineyurds, orchards and happy prosperous homes. What a population it will contain !- Riverside Press.

#### A VALUABLE DISCOVERY.

Some ten years ago the owner of a track of land lying back of the State I'niversity at Berkelpy took a sample of stone from it to a mineralogist in San Francisco, who, upon inspection, pronounced if city near which rock is found of which a very strong and valuable hydraulic cement is Hon, John S. Htttell, the well known California author and scientific inquirer, now in Europe, has lately forwarded samples of the pozznolana to Prof e Slate Mineralogist, from Italy, and on the very day they were received, the owner of land near the State University, who had so long ago furnished the rock samples found to be puz zuolana, called at the Mining Bureau with fresh samples which were subjected to nuclyan and test proving their identity with the Italian inineral, Mr. Hanks thinks no discovery has breis made for years to the State of comparable value. It will, years in the says, prove a substitute for Portland comout at one-fourth its cost, and for many uses be superior to it. Land in this conent, a building may be rolled down hill even, he asserts, without more hability of breaking sport than would a burglar privifirm safe, and equally as strong to tron would be sowers and water pipes made of this inexpensive material.—Contra Costa Gazette

#### THE VALUE OF COLUSA COUNTY LANDS.

The Column Sum thinks that the people of its county in not know or appreciate the value of their

We went over the river in R. Jones' farm one day this week, and took a look at his fittle place. He has in in maly 151 acres, and he fanced that it was the small a farm. There we finited apricot trees five years old, set omity four feet upart, allh the branches interlocked across the rows. They were headed shown, hending every branch with the wright of fruit, so that we might say that the whole sies was hierally curered with finit. He has in this orchard; pams, apples, plums and primes, all drang rignelly well. The archard of this age is small, but he set out last year apricols and prince the nucke about tivelve hamilred trees in all The growth of the roung trees had been as good as e shown in the Sinte, and many of them were actually bemling to the ground with the weight of Trees on this land will yield fruit to the value of ut least a dullar a tree, at three years Mr. domes has delared planting more because of the market but he will, this whiter, but unt a large archard. From his experience thinks the apricol and the German prune hest adapted to his land, and he will plant them only, Jones has quite a lot of his land rented to Chiuamen, at \$16 au seto per annum, and is offeren \$20 for more of it. In England land is valued by its rental for thirty years; in the Eastern States land is worth thenty-five limes its rental, and in California it ought to be worth twenty times its rental. The whole of Mr. Jones' land is murth \$330 an acre. It is true it will not sell for that, and simply because no of this county have not learned the value of haid as they have in other portions of the State. There are many such tracts of land along the river lying almost unused, but all because our people have not waked up to a realization of the true value of such land. As we have before re-marked, if the land from L. F. Monlion's to Butte slongh, on the east side of the arver, that will proilince just as much as Mr. Jones' land, was put in the crops best adapted to it, there could be emplayment furnished to 5,000 laborers. Lat say one look at Mr. Jones' orchard, with trees so far apart. absolutely corrring the ground in five years. time is near at hand when wo will see a great change m the face of the country, and such pioneers Mr. Jones in the histness, will reap a rich reward

## A STONE FOREST IN THE BED OF LAKE TABOE.

For some years past there has been a bank in Lake Talue, which, in clear meather, has generally been taken for mass formation. It lies at the right of the steamer's course between Tabos City and the Tallac House, about two miles beyond ldiewild. It looked as if a lot of trees had such to the histom of the lake and that moss and slime had collected there until the whole presented a wavy semi-tuns parent apprarance about 50 feet below the surface. During the past fer weeks the moss and debra During the past fer weeks the moss and debrishave disappeared, and now, when the water is clear, piur tiere can be plainly seen with every limb and twig perfect. Some fishermen went out lbero in a boat and lowering some grappling irons secured several splendid pieces of the petrification, when held a few feel from the eye, has the ruact ing tree and apparently fresh and green, the brit-Hences and weight distinguishing it freshly out branch. The specimens brought to MrKinney's were speedily disposed of to tourists. The largest was purchased by Henry Townsend, of San Francisco, for \$25. This is said to be the first thing of the kind ever found in the lake. forest occupies about two acres, and seems like a forest just momersed, except that its stony branches are forever still, and tall merds and vines which cluster about the franks of the giant trees are us motionless as the rocks. No wind ever still this motionless as the rocks. No wind ever stits this strange verdure, and the birds which once sing in the branches centuries ago have given way to fish which swarm through the forest by thousands .-Carson Appent.

#### A LARGE MINING SCHEME.

The Oroville Mercury says: Capitalists are at fleet, will make Oroville one of the greatest mining centres in the world. This project is neither mure or less than the organization of a commany who propose to mine Corpenter's Flat to the It is a well known fact that the entire flat is rich mining ground, but as yet no adequate method has been cumployed to get rid of the matr, which is enconntered a short distance from the surface. The new company propose to work It by means similar operation to the stiver mines on the Crimstick lode. Powerful pumps are to be placed at different paints and it is believed that idl the water can thus be got rid of. water and thus be got no di. The sorting by this yout gold field will necessitate the employment of thousands of men. We are not at liberty to dithousands of mon. We are not at liberty to divelge the names of the projectors, but can state that they are are very woulthy, and ne are assured that their plans will be put in operation at no distuit day.

cultural department of the Wrekly Cull.

So long as the planting of new vineyards an the this Coast is carried on with swift energy canh winter, and the crops are each year morensing, whatever helps the puninction of a high-riass raisin is of interrst to many prisons. It will not, at the present rate of pragress, by long until the raisin culture will be an important industry in at least twenty out of the 52 countries of California, and will probalily guin a foothold in twenty more. Each step taken and each experiment unade is of impactance, and should be put on record. The soil is, in places, all that can be desired for this purpose, and for more than ten years carnest and intelligent horticulturists have been making experiments with grapes. But the marketable raisins as yet produced nte certainly enpable of improvement. And it is to perceive the commonsouse way in which the mahors are recognizing this fact.

There was an able report on raising mails by the appropriate committee of the recent Los Angeles fair, in which they argo a frequent comparison so us to develope this interest into greater commercial importance. They say that the essentials of good rmaine are as follows:

Size of berry which should be large and nurform: bloom-bright, rich, anbrohen: color blueish and clear, never red, which indicates incinion decomposition; skiu-thin, deheate but strong; pulp-full, uniform and clearing freely from the skin, not pasty; llavor-rich, vinous, frre, aromatic, delicate, seeds - few, small, hard; stem of berry - firm, strong, adherent to main stock; bunch-large, full, compact, adberent; packing-layers only one bunch deen, each hunch isolated as far as possible: boxesuniform in style and of utmost external neatness; compactness—every box should be absolutely full, after proper pressure, and as few stalks as possible

They then call attention to the following points, in which growers often fail, causing themselves loss, and injuring the good fame of California

Boxes not full, always detracts from comvalue; stems or stalks too largo and allowed to be too prominent after packing; boxes the pressure of hinken the skin of the berries; insuffixivat care in "chipping out" small and abtaded britise previous

### COUNTRY LANDS.

A viritor in the Bulletin, of this city, whose opportunities are good for judging, says

Three is no gainsaying the fact that the inquiry a country land is at the moment quite unpreceden ted. Every day there are more or lass arm vale in this city of representatives of large or constituencies who proposo to come to the Pacific Slope. Lands adapted for orchard and vineyards appear to be most in favor, and moderate improvements are in almost all cases especially ilesind. These people have means, but the asking rairs are frequently a barrier to immediate investments. proved lands, must the railroad, are chained to be held at fancy prices, white more distant properlies that six mouths ago could be bought at a small figure have been marked up to values that affectually check negotialions. It will take but hittle time, however, for these matters to adjust them selves. The law of supply and demand is a gom tegulator, and doubtless in this case will be equal to all innergencies. We have about 5 000,000 acres of Government famil, which, though not directly accessible, is sind to be largely of insignoit productive quality as any that can be found in the Space Then the railroad hunds are coming into promise at notice, being offerrd as low down as \$2,50 per note with easy conditions. Of course in Napa valley, Smith Ohers, Sunta Cenz, Los Angeles, Fersio and other settled districts, land is probably warth all that is asked, when comparison with the yield and financial relatus is made. Newcomets, improver, generally want cheap lands, and this class will be more quickly sattled, and find more prompt sale than higher priced offerings.

The inquiry for interior parcels has shirred up

uparly all our local agents, and those or forethof prominence that is not airninging for a country department in connection with his city

### NEW VINES.

The present year will prove to be a golden one never looked better than they do now, and the com-mon grape erop will be one of unprecedented volume. Nor is that the best of the immediate volume. Nur is that the best of the runnerme-outlook. Greaturess of new vines have been set out in this city and county during the past senson. and the rame have conse just in this order which would be must desired. They are thrify to my exreplicant extent, sourcely one per cent, of the out-tings fulling to take ruot. Los Angeles county is putting herself in shape to givernably to the from parting acress in snape to go replany to the troin as a whine such ridshing grape producer. Within two years, at the present r to of progress, we shall com-pel linth Nam and Semano countries to take our dust.—Los, tageles Herald.

# The following excellent article is from the agri. NICOLL, The Tailor



JUST RECEIVED

A Fine Assortment of Foreign and Domestic Woolens for this Season.

## CALL AND SEE OUR NEW PATTERNS!

Suits to order, from	<b>\$20</b> (	00
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SUITS AND OVERCOATS,

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REAL ESPATE AND FARMING LANDS BUIGHT, and and on hunged on commission and private account. Moreof, Fe sho and "Juleo irrigated lands with water rights a specially. Houses rented and rents collected. Money binned.

33,000 127 ACRES RDLLING AND HILL-grades in vines, 15 acres incer resuly to plant, the acres in vines, 15 acres incer resuly to plant, the acres good-therries, balance Hillable; buiss and barn, also grow the spring of water, W. M. HRANDON & CO., 344 Rearing alreed.

11 ACRES IN SUNDMA COUNTY, 2 miles from deput and positiles and acre fruit; 2 mes heigh; you soil, particularly adapted for fruit; 2 mes heigh; you eyard and ordinat, and like climate. Believels of woul cat and ready for hardlar, and believels and another the property of the place; containing timiter, which will more than pay for the place; containing tones, when you the place; contained house the rooms; tagen and out the place; contained house and place that the place is the place is the place of the place of

20 ACRES AND UPWARDS - 1600 ATRES FINEST rich, level laint, and plander laint in the State; all rich, level laint, and plander leady for planting, are self one small yearly installments, cheap laint and con-vanion for transportation; best epipertunity ever - direct

1, 30, 000 1,000 ACRES ON SONOMA of Sommar, 30 nerve made cullivation, as follows: a cares in full bearing grape vines, all booking and stages one. Is, a dyoning at a power, and more than the years of 5 to 20 ners in full boating ordered, consisting of 15 to 20 mers in full bearing oreliard, consessing apples, purches, pears, plunes, approbas, etc., 25 in prain; 400 acres more of the hard care by clear games and fertil. On the betaine of the hard the good positive and between 7,000 and 10,000 cory would. Plure well watered by running streams. Freezy, W. M. BRANION & CO., 341 Kearny stream.

285). W. M. BRANION & CO., 34 results street.

2. 12. ODO. 105 ACRES FINE CRUIT LAND
10 the Vacaville warm 1910 best
16 meter index caustic warm 1910 best
16 meter index contribution, belonce passive
and timber, good nechard, 3500 frees, chobe fruits, cores vinegard, thus variethes of table graps, procedierny receif (100), one-built of rithely is fruithed in the
price, purphish to easist a countribute insertionate, in
8mt Francisco, all increasing farming tools, 8 tone hay,
100 fruit brokes, and 550s fruit wagens, horse, harne,
fruit-pucking house, out house outstakeds, two good wells
and several aprings of time water.

20,000 320 AORES LEVEL LAND IN and highly entityself course Costa county, all femous and highly entitysted, two dwelling hupes; no leading addition, two wells, hads and windutilis; 1,000 times, foreign varieties; good ordered.

W. M. BIGANHON & CO., HI Kenrny Street

#### A MINING TOWN.

Grass Vulley has always been distinguished for its many rich quartz mines, and it will retorn that distinction for handreds of years to come. This place never had any very hig gravel mines, although there has been much gold taken from gravel of this district. Compared with other parts of the monutains, however, Grass Valley has never been what might he called a place for gravel mining. Some few of the people here call Grass Valley dull at present, but they have not been out among the mines where men are drilling and sledging among the quartz ledges. In the mines life and energy are seen, and life and energy in the mines will be felt advantageously on the business and prosperity of the town. Now and then a growler may be found here who will say that the town of Grass Valley is going down hill and that the place is surely in a morihund condition. The same kind of a growler was here in 1849, and every year since his coming he has been foreselling that evil days and total destruction are here or are very close by. Yet the town has threved and grown and spread and has been the ubiding place of average human happiness all the while that the growling has been going nu.-Gross Fulley Tidings.

#### INCREASING IN VALUE.

The following from the Stanislans Wheat Grower published at Oakdale shows how rapidly land is appreciating in value:

Last Tuesday J. L. Fields sold the William Browning ranch, containing 192 acres, to a Mr. Campbell of San Joaquin county for \$6,500an advance of \$2,000 on the price paid for the same property last fall. The farm is a half bour's drive west from Oakidale.

### CALIFORNIA KNIGHTS.

The Chicago Inter-Ocean, of Sept. 2d, contains the following regarding the Conclave:

The returning pilgrims from the Pacific Coas are varying the trlp by coming back over different routes. Those who went to San Francisco vin Chicago, are now returning via St. Louis, and those who went through that city are now passing through Chiergo. All the Knights are united in their encomiums of Sun Francisco and their reception in that city. It seems that every Com-mandery in California had a headquirter in San Francisco, and no Knight could move shout the to enter a shop, store or place of interest, but what there was a committee of one always ready to assist him in supplying his wants, and no mor would be accepted from the pilgrim. It was truly a case of freedom of the city, and not one of the pilgrim Knights will ever forget the hospital treatment be received there. There were only about 6,000 Templars in San Francisco this Conclave, sud they could be taken care of in a princely man-ner. In Chicago there were 50,000 Kuigths, and a duzen Sun Franciscos contduot hope to handle such a gathering any better than did Chicago. Still the pilgrims this year are overjoyed regarding the California Conclave.

#### RICH MINES.

The Tribune makes the following mertion of some of the mines in the immediate neighborhood of Forest City, Sierra County;

The extension in the South Fork ground is showing great richness. If the deposit is as great as it promises the yield of gold must be immonse within the next few years. The San Margarita mine is paying handsomely. The Rainbow quartz mine is turning out to be very William Hanley brought into Forest City last week 890 ounces of gold taken from a hand mortar, as the result of the crushing of a few hundred pounds of rock.

## MUTUAL RESERVE FUND LIFE ASSOCIATION.

55 Liberty Street, New York.

INCORPORATED UNDER THE LAWS OF THE STATE OF NEW YORK.

CHARLES R. BISSELL, Treasurer

EDWARD B. HARPER, President T A AN Secretary. CHARLES R. BISSELL, Treasurer. O. D. BALDWIN, President Fourth National Back, New York, Auditor of Death Claimaunil Reserve Fund.

The Fourth National Bank has a paid-up Capital of \$ 200,000; \$20,000,000 dully balance; \$30,000,000 passes through the President's hands each day.

CENTRAL TRUST COMPANY, of New York-which has seets of \$12,000,000 - Trustees of Reserve Fund Account.

#### \$10,000 LIFE INSURANCE FOR \$50. \$5,000 FOR \$30.

## OUR PILLARS OF STRENGTH.

First-Graded assessments, so that the young and old will pay their exact proportion, and only as the same shall be required.

Second-A Reserve Fund, so that the permanency of the Association is guaranteed.

Third-A careful Medical Examination, so that only the healthy can become members, thus has triving a low

tality.

Fourth—The Touther System, so that add members will reach a point where no further psyments will be reed. New members will endeavor to reach this point by bring persistent to their payments.

Fifth—By placing the Trust Fund beyond the control of the Officers and Directors, so that no part of the saino
be used in paying exception as alrees or expenses, or misappropriated or corruptly bandled by them.

Such—An open Ledger, so that the alars of the Association may always be known to its members

Seconde—The Himitation of the expenses of the Association to the amount received from the admission fees

Scenth-The limitation of the expenses of the state of the property of the strate. No plan of son association presenting these combined features has ever failed in the history of insurance. No plan of insurance ever presented to the public has seen a universal hold of the hearts of the people, and has been so numbrimously accepted as a sound basis for permanent protection to the (naured, as that adopted and presented to insurance ever presented to t unanimously accepted as a so the public by this Association

## THE ASSESSMENT FOR 1882, AT ACE 35, WAS ONLY \$3.10 FOR EACH \$1,000.

This Association is to-day composed of over fifteen thousand husburss men, such as Bankiers, Merchants, Lawyers, Editors, Prefessors of our Colleges, Clergymen, Manufacturers, Littled States and State Sanators, Chiefs of our Government Departments, and others, all united together for the protection of their families, upon a common-scene plan, each momber contributing the exact amount required for the protection afforded.

Our lustiness in force at the beginning of the year was \$7,60,000. At the cent of this year it is \$75,970,250.

The assessments for death claim per year, for the past two years, have been, at the average of 35, but \$3.10 per thousands dollars insurance, while all of our dusth claims have been paid in full when due; width, at the same age, the usual rates ander the old system are \$2.50 per year, or \$55 for the two years, on each one thousand dollars of neurance.

APPOINTMENT OF AUDITION.

#### APPOINTMENT OF AUDITOR.

Mr. O. Baldwin, the highly esteemed Prosident of the Fuurth National Bank of New York City, a bank pos-sessing assets exceeding \$20.080,000, has become our Anditor of the Death Chains, Reserve Fund and Assessment Accounts. Within the past four months he has estated two examinations to be made into our accounts. In each case his examination, as per his report, has proved embently satisfactory.

### TRUST COMPANY AS TRUSTILE

Your Board of Directors within the year have also selected the Central Trust Company, of this city, to act as Trustee of our Beserve Fund, of which Mr. Henry F. Spandding is President, and the Hon. J. P. Otent, late Company late of New York, is the Vice President. The contract made with the Trust Company places the funds of the Beserve Fund beyond the control of the management of this Association, yt relating a combinged in the previous prevent peculiation from other sources. The Central Trust Company has acade capital and surplus appears to the Association of \$1,900,000, with assets exceeding \$11,000,000; thus all conceivable safeguards have been thrown around the affairs of this Association.

Within the past year we have received written opinions from the great Actuaties of our country, Hon, Elizabethand Mr. Sheppord Homans, as well as the opinions of many other equally reliable Actuaries. In every case the report has been that our system is correct, and nor Association will be a permanent and useful institution

### TWO SYSTEMS ANALYZED.

The fact is, there are two systems of Life fusurance in existence to day. The one is known as the Level Premium System; the other is known as the Assessment System.

## ASSESSMENT SYSTEM.

The Assessment System requires the members to provide for their losses as they occur. It admits of the incured being the enstedian of their own money until if is susolutely meded; and its only weak point, as developed by the experience of the past, is a lock of co-hestwares, which has been fully provided against under the Beacrye Fund system of this Association.

### LEVEL PREMIUM SYSTEM.

The Level Fremium System requires the members to provide for the losses infore they occur. To determine the proper amount to be collected in silvance, they have adopted what is known as the American Experience Mortality Table. The corrections of this table is not a matter of hands. That it, with the talerest in this excess of payments are the only elements to be considered in making any two cost of the insurance, is a disjunct question, to say the least.

Our rates are based do as that and not on assumed mortality, as is the case with the shi line companies, which require to advance four times the actual cost of features.

\*F FIRST-CLASS MEN WANTED IN EVERY TOWN ON THE COAST AS AGENTS. TO

Call on or address

C. M. OAKLEY,

General Agent Mutual Reserve Fund Life Association for the Pacific Coast, 311 MONTGOMERY STREET, SAN FRANCISCO.

#### OUR OIL INTEREST

The Santa Barbara Press thus speaks of the oil interests of our State and coast:

Two vessels are now fitting up with iron tunks in their holds to convey petroleum in hulk from San Buenaventura to San Francisco. An immense iron tank has been constructed near the wharf at San Buenaventura, and a pipe line is nearly completed from this tank to Santa Paula canyon, near the rancho of San-Cayetano, where a well already produces some 25 harrels of oil per day. The average of all the wells snuk in the Pennsylvania oil region is only about ten barrels a day. Some, of course, give hundreds of barrels, but these are We speak of the average of the production, taking all the wells together. It is known that the petroleum field on this coast many times as lurge as the Pennsylvania field, and there is no reason why it should not be developed and made to yield all the oil that is needed on this coast, and to supply the Sandwich Islands, Mexico, and the west coust of South America. Local capitalists have not heen bold enough to invest any considerable amount in sinking wells in the petroleum belt, but Eastern men, with more enterprise, experience and skill have recently turned their tention to these promising oil regions, and are meeting with merited enccess. Twenty oilhoters, from Pennsylvania, bave just gone into Ventura county, and 30 more are on the way thither. Ample funds are ready for oil investment by Eastern people, who have made locations of oil lands under the United States laws One company has bought, for \$100,000, the oil right in the lands of the Ex-Mission of San Buenaventura, and will thoroughly develop it. The benefits which will accept to this southern portion of the State from the development of its wonderful petroleum resources, are manifold and enormous. They must for exceed the value of all the gold production in the northern portion of the State, the chief muunfactures of the coast, and also lend to the growth of foreign commerce

We clip from the Sun Francisco Butletin of August 16th a telegram from New York, showing that our belt is receiving some attention at the East:

New York, August 15 .- A Times special from Bradford, Pa., says: A well known Pennsylvania oil operator recently returned from the petroleum districts of the Pacific Const, gives a glowing account of the nature and profits of the operations there. He says the fluding of oil in California districts is as certain as it was in the Bradford field. The drill always finds deposits, and no failure, at least in three of the districts, has yet resulted. It costs seven thousand dollars to put down a California oil well after the tools are on the ground, or twice as much as a Pennsylvania well- but after it is down and flowing or pumping, the California well is a much more valuable piece of property than the other,

#### STREL FROM CRUDE ORE.

We have on our table the first piece of steel ever manufactured in San Diegn. Some day in the future it may be a very interesting enriosity, W. Bouldin, the inventor of the process of making steel directly from iron ore, yesterday gave a test of his method of ing at the blacksmith shop just below Armory Hall. A large number of business men and others interested in the proposed establishment of steel works in San Diego were pre-The test was eminently satisfactory. The crude ore was broken up in a mortar and placed in erneibles with a certain proportion of flux, and subjected to the heat of a furnace. The first crucible withdrawn was found to be broken, there was sufficient melted steel to show the certainty of the process, the fragment in our possession being taken from it. The next crucible gave a solid ingut of steel weighing somewhat over ten onnees. 'This was produced from one pound of ore and six onnces of flux, after a little over two hours in the small experimental furnace. In a proper furnuce the same time required to convert ore into steel is less than one hour. All present were thoroughly satisfied with the test. Mr. Bouldin says that fine steel can be manufactured by his process at one cent a pound. It is proposed to form a joint stock company to erect works, with a working capital, to begin with, of \$30,000. We believe, from the remarks of gentlemen who have been investigating this anbject that the company will now be formed with little delay.—San Diego Union.

### NO CYCLONES IN CALIFORNIA.

The Western States (as they are called) are no longer good places to settle in, but are good places to leave. Cyclines are as destructive as earthquakes and quite as appolling, and no person of judgment will take up his abode or langer where eyelones are prevalent. A fire or a fluod can be evaded by flight, but an earthquake or a cyclone comes without notice and so suddenly that flight is impossible and no man can tell what course either will take, migrants, whether from Europe or the East, will soon cense to settle in a region subject to cyclones and those there will gradually mave to sufer quarters. Already we know of per-sons who for this reason moved from mid-continent to Culifornia and more will follow. Judge I. N. Hong, now in Chicago as Emigrant Agent for the Central Partie Railroad, might head his advertisement "No Cyclones in Cylifornia." These cyclones but confirm the theory of William Frank Stewart, preached in Sacramento 20 years ago, that earthquakes, save at such places as Vesuvius or Manna Loa or Hecla, are not caused by internal fires hat by electricity. "And" he said, the overland radway shall be completed I predict that there will be but few if any earthquakes in San Francisco or California and that they will be light, because the rails will conduct the electricity to mid-continent where it will become a destructive element consing tornadoes and great storms," prediction has come to pass, both as to the cessation of earthquakes on this coust and the destructive electrical storms in mid-continent. And yet, so far as we know, none of our modern scientists have attempted to account for these cyclones, on Stewart's or any other theory. The fact, however, is prominent; and the West will come farther West to escape these storms, while immigration on the move will not stop there as of yore, hence Culifornia will, on this account, he sooner populated than it otherwise would be .- Sacramento Bee.

#### A TEN ACRE FARM.

J Y Dillon has recently given the Yolo Mai the result of his industrial operations for six years on ten nercs of land, which that journal reports as follows:

He hegan upon it six years ago by planting ave acres to the Muscatel grape. He now has seven acres, the last two acres being lately planted. He also has one acre planted to prunes, necturines and peaches. From his tive acres last year his gross returns were \$1,-200. He planted last year three quarters of an acre to beets, which yielded him thirty-five With these and a little bran or shorts he kept a span of horses and two cows seven months, besides which he sold \$30 worth of beets. One of his cows yields him now from ten to eleven pounds of butter per week, besides the milk the family (consisting of his wife and one child) uses. When the cow is fresh he makes from her fourteen pounds of hutter per week. Along his fonce he planted twenty walnut trees, now six years old, which have borne fruit the last two years. From the wood out from these trees this year in the tramming, he made little over three cords of stove wood. Gum trees planted six yours ago, and some of them twelve inches in diameter, will make, when cut into wood, from one quarter to one half a cord of wood per tree. Mr. D. says, in the condition in which he now has his fruits and vines, he can make a living for himself and family and by by from \$800 to \$1,000 annually.

### COMPLIMENTS TO CALIFORNIA.

The New York Tribune of recent date says Henry Grosjean, the French Commissioner of Agriculture to the United States, who has been here for two years, sails for home Wednesday next. He prophesies a great future for California wine, and thruks we chent ourselves by using foreign lubels on our good wines. He yesterthry visited Castle Gurden and critically examined the arrangements for receiving the unmber of immigrants now arriving at the government limiting. He believed that the French immigrants would not find it agreeable to settle in Maintoha, Minnesota and the North-western States all of which he conceived anot for French settlers. He thought the northern climate of this country was somewhat like that of Normandy, in France, while California is the State which, he believed, would admirably suit Frenchmen. It was more like Marseilles.

### THE RESOURCES OF CALIFORNIA.

JOHN P. H. WENTWORTH,

EDITOR AND PROPRIETOR.

### PUBLICATION OFFICE:

No. 320 Sansome St., Halleck Building.

ISSUED MONTHLY

Terms...... \$2 per Annum.

SAN FRANCISCO ......OCTOBER, 1883

### READ AND CIRCULATE.

When you have read this paper preserve it and lond it to your neighbors, or send it to dome friend in the Eastern, Westernor Southern States, Canada, England and Continental Europe, who will value the information it contains, and night be likely to come or send intelligent, industrious formers to selde in Culifornia.

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## AVAILABLE LANDS FOR MEN OF SMALL MEANS.

If those people, who, after arriving in the State, feel disappointed and leave it for Oregon, Washington Territory and other localities, in consequence of not being able to find suitable places where they can build up homes, would turn their attention to the region of country lying along the western hase of the Sierra Nevada mountains, and extending to their summits, they must be hard to please if they cannot be satisfied. The section to which we allnde embraces the footbill lands and mountain counties. The following are cou-sidered among the most valuable of them: Plumas, Nevada, Placer, Sierra, El Dorado, Amador, Alpine, Calaveras, Tuolumne, Mariposa, Mono and Inyo. If there are people in California, of small means, who are looking for a locality in which to settle and establish bomes, we would advise them to visit any one of the counties we have named, and we believe they will find exactly what they want.

We will take Et Dorado county, merely its an illustration, not because we particularly favor il in preference to others. It is about 70 miles loug hy from 40 to 50 brond. There is not one acre in fifty, probably, of its tillable soil under cultivation. It extends from Sacramento to the Nevada State line. We saw it stated, not long since, by a traveling newspaper correspondent, that, for a distance of 50 miles from the boundary line of Sucramento county, the exception is to find an acre not susceptible of cultivation. All the land in the conney, says the same writer, to an elevation of from 3,500 to 4,000 feet is adapted to fruit growing or other agricultural purposes. This does not mean that oranges or other deticate semi-tropical fruits will llourish in these allint they may be successfully raised at an altitude of 2,000 feet above the level of the sea. At the highest altitude we have mentioned there are to be found luxuriant fields of alfalfa, where there are three or tour cuttings a season. This correspondent saw, only a short time ago, trees bending under their burdens of luscious fruit; sheep and cattle grazing on vacant lauds, and vines bearing a good crop of grapes. The climate is as beautiful as can be found in the State. The scenery is

picturesque. The other counties offer equal | MAJOR BEN C. TRUMAN'S NEW HOOK. advantages, in every respect, to the one we have described.

The upland sections contain, by far, the largest part of the gold mines of the State. They are but sparsely inhabited and contain more public land, subject to settlement, than any other section. Some of the most profitable duiries are also located in these counties. We think some plan should be adopted by which the advantages, for settlement, of these immense areas of rich lands could be more fully made known. Those who bave had practical experience in their cultivation nuhesitatingly declare that they will produce nearly everything that is raised in the largest and most productive valleys of the State. It is claimed that the peach, apple, plum and ordinary gurden vegetables reach a degree of perfection which can not be attained in the low valley lands.

There is, also, another range of hills called the Coast Range, comprising a tract of country whose area is but a little less than that of which we have been considering, that is equally adapted to the same pursuits. And, strange as it may appear, there is probably not one acre in a hundred that has been brought under proper culture. This should, and will, impress intelligent farming people, in other States of the Union and abroad, with the almost boundless opportunities still offered in California for making homes and acquiring competence. Offering such advantages of choice localities, cheap lands, rich soil and good climate, these uplands will, at no distant period, fill up with a desirable population and hecome valuable.

#### IMMIGRANTS.

When compared with the departures we find that the State is steadily gaining in its population-from 1,000 to 1,500 arrivals being recorded weekly during the last few months It is highly gratifying to learn that considerable capital accompanies these people, and that they come to California to locate on account of the salubrity of its climate and the advantages it offers for building up pleasant bomes. Those arrriving now come at a good time, for there are immerous large tracts of hand being thrown upon the market, and considerable government land is yet open to pre-emption and homestead purposes. Immigrants can be assured of cheap lands, prolific soil and unsurpassed climate. There are 60,000,000 of agricultural and grazing lands, and 24,000,000 acres of monutain land in California, with al least 4,000,000 acres of swamp land susceptible of improvement. Less than eight millions of this territory is under cultivation. This statement, alone, ought to prevent anyone from discouraging immigration. California has been pronounced by many tonrists the healtihest State in the Union. It has every variety of climate as well as soil. Almost any crop will prove remuneralive. But if one crop should fuil a score of others may succeed. No other State grows such a variety of crops. A good living cannot be secured, with so little labor, in any other part of the Union. Lunds and property of all kinds are constantly appreciating in value. Money judiciously invested in any one of the fifty-two counties is almost certain to afford a sure return. Our vest resources have not yet been one-half unfolded; nor will they be for a long time to come. The articles and statistics to be found in this Journal, relative to agriculture, climate and stock-raising, should be carefally read by those who are considering the advantages, California possesses for making homes. A quarter of a century ago her agricultural resources were considered tritting; but one production after another has proved successful. First it was wine, which continues to increase in quantity and quality until we realize that this interest is destined very speedi. ly to become all important. Then wheat, which we know can be produced beyond the capacities, at present, of transporting it to market. But who would have believed Iwenty ears ago that semi-tropical fruits could have been grown successfully in a large portion of California.

#### LAND SALES.

The land sales of the Central Pacific Railroad from Japuary 1st, to September 30th, inclusive, aggregated \$714,000, and it is thought that the transfers of land in this State during same time aggregated \$3,000,000.

A very handsomely covered and neatly printed copy of this anthor's last publication, of 63 pages, styled "Homes and Happiness in the Golden State of California," has been laid on our table. Its typographical appearance is nearly as faultless as it seems possible to attain in the use of types. It is profusely illustrated with choice engravings, representing hig trees, mammoth hotels, points of interest along the coast, and natural-sized cuts of horticultural productions, fruits, etc. But the great value of the publication is in the quality and varied amount of information which is given in its pages concerning the resources and development of the Golden State. It is replete with reliable and well arranged information of great value to emigrants in search of the best agricultural locations and healthiest temperatures. The unthor states that this illustrated volume was prepared in the interest of two general classes, namely: immigrants, from all sections of the civilized world, seeking for permanent homes in a healthful agricultural country, and the people of California, who are anxious to share their splendid lands and their incomparable climate with other people of their own kind from all quarters of the globe.

The book is full of matter of interest, not only to farmers, emigrants and tourists, but also to the general reader. It contains full and accurate descriptions of all the celebrated health resorts in the State, with details of the routes thereto, rates of fare, etc., and a map of the summer and winter resorts and other places upon and near the Central and South eru Pacific Railroads in California. In short, it is a compendium of information, touching the climate, soil, production, extent, topography and attractions of the Sunset State.

The subjoined, from the daily Exchange, speaks in high pruise of the book:

"Major Ben C. Truman has contributed another work to the descriptive and statistical literature of the State. It is entitled "Homes and Happiness in the Golden State of California," and is for the information of the homeseeker and tonrist. It is gracefully written, for Major Truman has the happy faculty of presenting the most serious and stutistical matter in an attractive and readable form, a rare gift with those who attempt this class of writing. The book gives a wonderful showing of the advantages of this State. It is brimful of information un soil, productions, resources and climate, and of incalculable value to the tourist and immigrant. The illustrations are very artistic, noticeably those of our fruits, which are exquisitely executed. The book is published by the passenger department of the Central Pacific and Southern Pacific Railroads, and will be distributed free on those lines."

Major Truman is one of the pleasantest writers on our coast. He possesses the happy faculty of holding, completely, his readers until they have finished closely perusing any article from the facile pen of this tulented and genial writer.

#### THE MECHANICS' FAIR

The Eighteenth Industrial Exhibition now in progress at the Mechanics' Pavilion on Lurkin street opene I on Tuesday the 11th, inst. and is in all its appointments, arrangements and exhibits, one of the very best ever held by the Mechanics' Institute. The music is very fine, and the general display delightful to the eye, as well as attractive to the intellect of all who glory in the development of the grand resources of this State. Some of the exhibits are exceptionably fine, particularly those of W. T. Garratt of Garratt's Brass Foundry and the Pacific Saw Maunfactory.

Every available foot of space has been utilized, and the products of the various industries skillfully placed on exhibition. Great interest has been awakened, especially in the Machinery Dopartment, which is unusually large, and in fact the same remarks are applicable to every other, the visitors never seeming to grow weary of gazing upon the multitude of California products so artistically presented to view. The putrousge thus far is considerably in excess of former years and bids fair to continue so until the close. The scene at night is very beautiful and well repays one for the slight trouble and expense of a visit.

Californians should feel a pride in a publicution which is doing so much for the State as this journal is, and send it to their friend,

THE PACIFIC SAW MANUFACTURING COMPANY'S

Splendid Exhibit at the Mechanics' Fair.— A Baautiful Display, Artistically Arranged nipon a Grand Surface of 1, 200 square feet.—One of the Principal and Most Naval Features of the Great Exhibition.

It is the unanimous opinion of all whn have visited the Industrial Exhibition, that for artistic beauty and purity of design, the display made by this company has no superior. In fact, it is one of the greatest of all the attractions there, people never seeming to grow weary of guzing at the wonderful exhibit. which embraces every style of saw manufactured by the company, all arranged upon a surface 20x60 feet, more or less, to a novel and, at the same time, most practical manner.

The members of this firm deserve the very highest credit for their untiring efforts in estaldishing this great California industry upon the solid bases it has now attained. are the sort of men who are an absolute bless ing to the State; men of ideas, canacity and unvielding determination, who, by their constant efforts, have finally succeeded in producing a class of saws that, for durability, temper and exquisite workmanship, have no superiors, if even equals, in any part of the civilized world.

Mr. N. W. Spanlding is one of the firm, and the inventor of the Patent Inserted Saw Teeth, which has produced a complete change, wherever introduced, from the style beretofore in use. The company make a particular specislay of the manufacture of these teeth and are receiving orders for them from every portion of the Union, as well as foreign countries.

We very much doubt of any manufactory in the world can place on exhibition a more beantiful, varied and highly-artistic diplay, the groupings and ensemble of which holds the visitor spell-hound with admiration, eliciting finally the highest encomiums of praise and heartiest exclamations of pleasure. all this elegant display of refined taste, and hest of all, is the great practical utility of their goods, and to come right down at once to something that everybody needs we will speak of their new wood saw denominated The Boss with its automatic, self straining, wood-saw frame, which is, without doubt, the very best saw, for the use intended, ever invented

We advise all our readers to make this company's factory a special visit whenever they come to the city, and those in want of any possible description of saws to seek no further, for better, and cheaper goods, but on the contrary, to patronize at pace this deserving company, that is doing, and has done so much to give tone, and high character to the mechanical productions of this State. As we have stated before their stock embraces every article of the kind in general use, their factory heing located at 17 and 19 Fremont street San Frau eisco California.

#### PURCHASING AND AGENCY. AND COMMISSION

We take pleasure in stating that our well known friends, I. G. GARDNER and R. A. DIVER, have established a commission and parehasing agency in this city, with their headquarters at No. 310 Pine street. These gentleman are well and favorably known throughout the cutire Pacific Coast as being both competent and reliable. We bespeak for them a prosperous business career, for promptuess in the transaction of all business entrusted to their bands will be their rule. Mr. Garduer, the senior partner of the firm, has been in business in this city for many years. Mr. R. A. Diver, the junior partner, has, for many years, traveled for several leading husiness houses, and now that he has started for himself, we wish him every

#### A LARGE SHIPMENT.

The St. Helena Times states that during the mouth of August Wm. Schettler of that vicinity shipped to this city 12,585 galtons of wine and 824 gallons of brandy. Other large shipments from that section, not delivered, are

#### THE PAIR SEASON.

The San Joaquin District Fair, held at Stockton recently was the most successful yet held there. It has been a good season for fairs all through the State, as the farmore, stock caisers, fruit growers and manufacturers have prespered in their respective branches of industry.

### A WORD OR TWO ABOUT CALIFORNIA.

Her future promises to be one of nuexampted prosperily, and that it will be one of the most densely populated and wealthy in the Union there is not a shadow of doubt. Our giain fields are among the marvels of the world. Think of tens of Illumenude of acres in our body all covered with growing grain. The herds of stock are vust ulmost beyond comprehension. 'The fruits of California are more perfect in size, and delicions in taste than can be raised in any quarter of the globe. This is the verdict of many of our recent visitors. The vegetables are also of extraordinary size and perfect in all other respects. The shrahbery and flawers are of infinite variety. beautiful bies, and worth traveling a great distance to see. 'The forest trees of cedar, pine, and redwood, grow to an enormous size, and make the finest timber in the world. A gentleman from New Eugland, who recently made the tour of our State, writes to the Sringfield Republi-" its gigantic mountains all covered with verdure ; its beautiful mountain lakes ; its unmerous and valuable mineral springs; its astonishing govsers; its petrified forests are all of absorbing interest to those who view them for the first time and it would fill a large volume to do them even slight justice."

We often wonder why some of the representative working men of England and other countries who occusionally come to the United States (to find out by personal abservation, whether some thousands of farm laborers and other working men of their respective countries would improve their condition by settling in it) do not extend there visits to our State. Here they would learn that California soil is very fertile, and, that her climate permits of comfortable out door work nearly every day in the year ; that we have an expanding commerce, plenty of elbow-room. In short, they would discover that California is a favored land, and in all respects desirable as a home for the industrious, that it is of all lands the home of the industrious poor, that it has capacities and resources which are only awaiting intelligent and persistent labor to develop. There is ample available land to support a population of ten millions of people. In on: opinion there is no other country in the world that offers such advantages to the settler,

### ISOLATED SECTIONS.

There are locations in our State which are so isolated and remote from market that the furming element of our newly-arrived immigrants cannot be judiced to even look at. But these places will, in a few years, be easy of access, for the iron horse is certain to triverse every region in the State, however distant. The present railroud system has already done much California. It has aildeil to its importance in the eyes of the world, and has brought hither to inspect and examine its resources and capabilities, the capitalist, the merchant, the miner and the artizen, who, without the incilities thus afforded, would never have visited its shores. But its extension is greatly needed to open up new settlements in remote sections of the commonwealth; and to this end public opinion should encourage such an enterprise justend of railing at its benefactors, as has been too much the case during the last few years. Wherever the milroad has been constructed in this State the price of land has advisuced. Lowely regions of country have become suddeuly settled with industrious and enterprising communities, which have been the means of adding largely to the wealth of the State. These places, when once started, rapidly increase in population and wealth. We might mention several counties, that, but a few years ago were almost without inhabitants which are now rapidly becoming known as among the most prosperous in the State. The assessment rolls show, that in proportion to their inhabitants they will soon rank among the wealthrest. Stanislans, for instance, has a tax roll of \$15,000,000. It was only a few years ago that this county had a very source population, and its plans were supposed to be harren. Now it has loomed up into one of the foremost counties in the State -and all on account of its great agricultural

#### DATOR PROUR MILLS

Starr's flouring mill at South Vallejo has a capacity of 2,200 barrels a day since the recent enlarge

#### CALIFORNIA FRUIT

The shipment of Culifornia fruit to Eastern markets is turning out better than ever, Shippers are leginning to take more pains in picking fruit, and at present prices for transportation there is no danger of the fruit business in this State being overdone, recent arrivals of California fruit the Boston Commercial, of August 14th, says:

This year California fruit is coming for ward in excellent condition, and the recelpts so far show a considerable increase over last senson. The season for Californin green fruit-under which term is included pears, plums, penches, apricots and grapes-extends from July to the latter part of September; and one of the largest receivers estimates that an average of 400 packages, of all kinds, per week were received here last year. The first receipts this senson were about the first of July, and it is estimated that about 1,700 or 1,800 hoxes of pears, 1,500 boxes plnins, 300 boxes penches, and perhaps 150 hoxes apricots have so far been received. Grapes are just beginning to come in the first lot having arrived two days ago. The fruit this year has been of excellent quality, though some of the peacs beshowed the effects of the long journey. 'The receipts at Boston are expected to be largely increased next year, if the California crop be a good one, as the fruit reaches here before either native or Southern fruit of the same kind is in the market, and the demand for it is becoming quite gene-

### WHAT THEY SAY ABOUT IT.

The Eastern papers are just now well filled with the experiences of returning Knights from their trip to the Concluve. All speak in an extravagant manner of their princely treatment by the people of California. From a lengthy article in the Detriot Free Press written by Henry B. Roney a member of the Bernard Commandery, we copy the follow-

Calmly viewed in retrospect, there arises in the mind no recollection that would in the slightest degree quality the almost extravagant accounts of the royal manner in which we have been received and entertained, that have reached you by telegraph. I thought I knew what hospitulity was. I found I had not learned the first lesson in that sublime-trait shall I cull it? for art or science it is neither. The reception and hospitality extended to Pilgrim Knights from distant partions of our country by the people of California was more than princely-it was lingly. Nor was this feeling of cordial welcome confined to the Templer fraternity. The entire Pacific slape seemed to have constituted itself a "Committee at large to welcome us even at the very galeway of this sugget wonderhand and stomp deep late our minds recollections of kindly, heartfelt greetings never to be efficed.

#### PROMPT SETTLEMENT.

SAN PHARCISCO, August 14th, 1883

MESSUS, HOHADE D. HOWIN & Co., General Agents The Accident Insurance Company of N. A.

GENTLI MIN. With much pleasure t acknowledge reorganization and many present of your check until Augho-Culffornian Bank for the sum of three thousand dollars, in full payment of amount insured under Policy No. 56,552 of your Com-

amount fusired ander rodey so, sa, as or your con-puny on the like of Fillith J. Stanaga.

Take this opportunity to express my admiration of the prompt and homeable dealing shown by your Com-pany in this case. Mr. Stanage made application, with an understanding with the agent, that he would pay an understanding with the agent, that he would may the premium at the expiration of a certain length of time, and thou the noticy should be delivered. The accident occurring previous to the expiration of whis time, the premium that not be no pain our like Coliny delivered. Though here was a manthed opportunity for the Company to shirk that responsibility had they need so was manifested. On the entropy, the loss was promptly adjusted and pain to talk tumedislely on allow proofs of loss with the Company.

I therefore most cheerfully recommend your Commany to utilesting acception to mirrance.

pany to all desiring accident insurance

Yours truly,

C. S. HOLMES. or Barton, Rolmes & Co.

## WELCOME HOME.

Phop. Thus. Phick, and his son, Arthur Farady Price, arrived in this city from Europe on Sanday. Arthur Farmly Price has been abroad for several years, where he has gone through a thorough course in chemistry The usuay friends of Prof. and assiving. Thus, Price were joyous over the return of himself and son,

#### A GRAND INVENTION.

The Dyer Cannon Ball Quartz Mill.

The Glabe tron Works Company, 222 and 221 Fremont Street, San Frencisco, Cal. Manathetares

In every portion of the mining region of California, as well as those of the adjacent States and Territories, there are immunerable ledges of quartz that have, for years, been in the hands of the men who first discovered them, but who have never been able to obtain sufficient means to erect a stamp will, and give their properties a real, true, practical test.

The great want of such parties has, at hish been furnished by the inventure of the Dyer Cannon Ball Quartz Mill, a machine that is destined to work a complete revolution in the methods of eraslung ore heretofure in vogue, and which can be procured at wrate so cheap that it is at once within the reach of all.

The company elvim that it possesses more desirable qualities than any other stamp mill or other style of crusher, while the tutal cost is 75 per cent, less for the same crushing supusity. It also has less wear, takes less power to run, and is but one-third the weight of a stamp mill of same capacity. It is made, too, in several different puris, the bearings of which would be but 450 puands, in the twelve ton mill, so that it can be safely transported over the steepest monutain trails upon pack males, if necessary, into localities where it would be impossible to take the former. It is simple, compact and very strong, having no complicated portions to get out of order, and, while the millwright is absolutely necessary in the construction of a stance will, any ordinary merhanic can put the Canaun Ball Quartz Mill together, wherever he can find ten fect square of level ground upon the side of a hill or other spot on which to set it up.

This great machine is the invention of the brothers, A. D. and J. M. Dyer, and was patented Oct. 3d, 1883, and has a capacity of from 14, to 200 tons for every 24 hours, according to size.

It is a self-feeder, the rack first passing to the ernsher, and then on lower down to be completely pulverized by the council bulls. The company do not claim, for the machine, avanlgamenting properties, but, that it leaves the gold brighter and freer to amalgamate than any other. It also runs with one-hulf the power required for a stamp mall of same capac costs, as we beture remarked, three fairths loss

To give an idea of the difference between the weight of this compact little giant and the we will state that while the former, of 12 tons capacity, all complete, weighs only 4,500 pounds, the latter reaches fully 13,000,

Its motion is rotary, crushing, not grinding, either wet or dry quartz equally well, and running in either direction the same. The wear and tear have been computed to be twelve cents per ton. The ennuou balls will crush 150 tons before wearing out, and cost ten dollars a set. The upper truck will last twice as long as the cunnon balls, and lower track three times as long. It can be run by either horse, water or steam power, and the company manufactures small sizes of one and one half to three tons caparity, at a corresponding cost, expressly for prospecting or working apout a small scale

As we stated before, this is a grand invewtion that is certainly destruct to awaken our foothill and mountain miners, from their Rip Vivu Winkle slumbering, and give many a poor, but honest miney, a chance to yet make his pile and revisit the scenes of huyhood's years.

The cost of the No. 1 mill, of six tons capacity is but \$350, total weight, 2,500 pounds, while that of No 2, of twelve tons capacity, is \$600, and smaller or larger ones in similar pro-

These mills are as simple in their construction as a cooking stove, and can be taken apart and put together equally as easy, while any man who can bandle a saw, because and square would prove fully competent to get out the timber and erect the frame, tou feet signire of spinen being all that is needed for a 50-ton

The company have one is operation at the Mechanics' Fatr, where it has been visited by thousands of mining men. They also have two rwaning constantly at Grizzly Flat, El Dorado county, and have an order for two more for the same locality and elsewhere. We advise all our

interior rewlers, who are interested in the development of our quartz-mining industry, to make it a special point to call at the Glube Iran Works. in this city, upon their first visit bither, and see this wonderful mill in complete operation; and further, our advice to every mun, who owns a quartz lend, is to get one of the smaller mills and go to work at unce and find out just what his rock will pay. Wake up, gentlemen, set the cannon balls in motion, and our word for it, wealth will soon commence to flow intn your pockets, and your long-neglected ledges to yield their immense riches

#### CALIFORNIA RAISINS.

The Boston Bulletin has the following enconraging words about California raising

These Culifornia raising are made from the Mulaga grape and are large and of excellent quality, and are acknowledged to be superior to the loreign. They are also fusher, as they never have the othery taste given to the foreign raisins by the sen voyage, The grapes can be grown so cheapty in California and the raisin product is increasing so rapidly that in a few years, possibly in 1885, it is confidently expected that the California raisius can be laid down in this market at \$1.25m 1.30 for a 24th bux, at which price the foreign raisins cannot compete with them. At present the freight on the California is 11; cents per pound, which amounts to 25 ments on 20 pounds, and it is probable that us the shipments. East increase, the freights will be lowered a little. The foreign ruisius pay a ilniy of 2 cents per pound and 12 cent per pound freight, and this on a 20 pound has would amount to 50 cents, and this 50 cents for freight and duty must be subtracted from what 20 pounds of California misins sell at. It is channel by the Californians that they can produce roisins fully as cheap as the Spaniards and that in a few years they will controt the American market. In addition to their superior quality, buyers will he attracted to Colifornia raisins for another reason. They are banestly packed, the bottom layers being fully equal to the top and the hoxes have always full weight.

#### A BIG STRIKE.

The Amador Disputch farnishes the following account of a rich mining strike; A pocket of quartz of almost apparalleled richness was found less than 100 feet from the surface at the Nevills or Mammoth mine, three miles south of Jackson, Ausdor county, September 8th, in which was found from \$75,000 to \$100,000, and being about two tons in quantity. Much of this might justly be termed huge chunks of gold instead of gold-bearing quartz. Some of these immense pieces of illmost solid gold were about as heavy as a man could easily lift from the ground. The largest piece was of an oval shape, 16x52 inches, and 6 or 7 inches thick. This gold is almost black, and of the same character as the former rich strikes found in the same mine, and which have beretofore attracted the interest and attention of the mining men of the United totes. We have no doubt but that this is the richest find of gold of this kind ever known in the United States at one single time

### MAN PIACRES FOR BEEF CAPTLE

The Modoe Independent says: Cattle largers are moving around through Northern Califoruia and Southern Oregon, but as yet owing to the high prices asked by owners of cattle, the sales have not been very lively. Bilty Nelson returned this week from the Stren Mountain country with about 1,000 head of stock cattle which he purchased of Peter Freuch. Messrs. Buss & Landsey, of Lassen county, also passed through with 300 head of beef cattle. West Bras, arrived on Sunday from their Dregon rauch, and report entile in tine combition. They attempted to buy enough cattle to make n good drive, but holders held their cattle at such a high figure that they and not deem it advisuble to invest just at present.

#### LAND SALES.

The l'acific Coxet Land Bureau vaports their sales in Sau Luis Ohispo and Santa Clara counties for the past fifteen months as footing up \$603,800, a good portion of which was sold to new arrivals in this State, who had their attention called to the land in the above counties by the Bureau.

Subscribe for The Resources of California,

#### WM. T. GARRATT'S

Brass and Bell Foundry, Machine and Hy-draults Works, Located at the Corner of Fremont and Natoma Streets, Sun Fran-

Prominent among the great and growing fudustries of this city and Slate is the immense estab-lishment of the Hon. William T. Ourratt, commenced by him in 1851. In the great fire of that year his buildings were totally consumed; yet, nothing danuted, he started sgain on Hulleck street to be burned out, a second time, shortly afterwards. With that never-say-die determination, that has so often been exemplified in this State by the meu of '49, in 1866 he once more started his business near the corner of Market and First streets, and, after a very successful continuation of four years, still again lost all by that originated in the Mechanica' Mill in 1870. Il is said that the spider will continue to spiu his web so long as life lasts, and, with more than Spartan energy, our friend again made a commencelime locating upon the corner of Fremont and Natoma streets; since then building up the immense establishment now occupying thou busy premises.

The foundry is an honor to the city, and proud monument of what real ability and stern, uncompromising perseverance can do. who are well posted upon the subject, that there is not another brass foundry in America that does so great a variety of work, the articles manufactured embracing bells, hydrants, valves, faucets and every description of miscellaneous castings, to leave ont of the calculation altogether the thousand and one minor articles it would be impossible to mention in an ordinary newspaper article.

In iron and general machine business it turns ont globe and safety valves, fire hydrauts, water Mr. Garratt also carries a very large stock of iron pipe and mullable iron fittings, governors, ha d poriable blowers, blast blowers for smithies, foundries and sleam traps.

One of the great specialties is Garratt's Jackhend, or miner's sinking pump; its lightness, durabilty and the cuse with which the valves can be replaced, making it one of the very best pumps possible to use in sinking. One great desiderathin and advantage is the fact that muddy and grity water does not obstruct or in any way impede its action.

Mr. Garratt also manafactures the Hooker steam pump, a purely California invention, that has never yet failed to come off victorious wherever and whenever placed in competition, and also received the gold medal from the Mechanics' Institnte. This great pump is particularly valuable for mining, irrigation and holler feed, and is the best steam pump, for general use, on this coast, Mr. Garratt having the exclusive right to maunfacture it west of the Rocky Mountains.

The largest bells in use here bave all been made at this foundry, and they, as well as his other goods, have been and are constantly being shipped to Anstralia, Olima, the East Indies, Japan, the Sandwich Islands, Mexico, South America and Islands of the Pacific.

The place is literally a hechive of industry, something that will do one good to behold. It employs, at present, two hundred men and boys, more or less, some of the very best workmen in the establishment having learned their trade there,

In this connection we can not refrain from expressing the wish that thousands more would only do as Mr. Garratt has done, would be actuated by that same grand, comprehensive spirit and desire to build up California, and give her young men an opportunity to show the world the material of which they are composed. We have the grand water power, climate and many, very many great advan-tages, but sorely need the men to make these vast natural resources available.

The proprietor of the Brass Works under consid-

eration is a native of Connecticut. While still a child, his father emigrated to Ohio, he growing to manhood in Cincinnatli. At the age of 20 started for California, arriving in the spring of 1849, and going at once to the mines at Deer Creek, now called Nevada City, where he remained only s short time, returning to San Francisco and starting the business we have described in connection with Mr. G. W. Shnliz, whom he bought out in 1851.

For several years he held very large interests in steamboats plying upon our influed waters, many of which are named for different members of his family. For more than thirty years he has been an active member of both the Old Fellows and Masonic Lodges, and is also President of the Territorial Pio-Politically he represented San Francisco in

the State Legislature between the years 1870 and 1874.
At the Mechanic's Fair now being held be this the Garrett Brass Foundry, Machine and Hydraulic Works, have made an extremely comp hensive, as well as artistic, and practical exhibit, baving a full line of pumps in active operation in the Machinery department, including all heretofore spoken of in this article, as well as the Langrehr Patent," Rival, Marine, Mining and Irrigating pamp.

The Rival pump is adapted to hand, windmill, horse, or steam power, and is the cheapest and heat pump offered in the market, for bandling muldy or gritty water, coal, chips, sand or gravel, and

cannot be injured thereby, and requires only the ordinary bemp or cotton packing. It has large water-ways, and full area of anction. Mr. Garratt also exhibits the double acting lift and force wind pump, made wholly of brass, being far superior all hand wine pump. It is mounted on plank, with flange, cast on hottom.

In conclusion we would say to the practical visitor, wine grower, truit raiser, and farmer, by all means pay a visit when in the city, to this great California establishment, where the goods offered for sale are manufactured on the spot, and not imported, and if you wish to procure anything in that line, there is not, and cannot be in all America, a hetter or more suitable place to make your purchase. Patronize home maunfacturers every time; and especially, men who are striving with all their might, to develop the great resources of this State, and to help her young men onward, towards the acquisition of a good practical useful trade.

#### THE COMING VINTAGE.

Uniler the above heading, a writer in the Daily Chronicle of this city furnishes that paper with the following excellent article :

The accounts from all parts of the State where the growth of the vine is made a specialty are of the most satisfactory description, and it really seems as if the wine-presses will be insufficient for the crops and in many justances recourse will be had to the old-fashioned method in use five years since. At the present stage of the season it is as yet difficult to make an approximate estimate of the grape crop, but, laking as a basis the supposition that there is an increase of 15,000 acres in our vineyards. this would give an angmentation of 3,000,000 gallous this season over the 10,000,000 production of last year. The difficulty of estimating the growing crop is increased through many vineyards now first coming into maturity, and through others having been plowed up and planted with foreign varieties more fitted for wine, lable and raisin purposes than the native growths, and it will be two or three years at least before these will commence to yield in paying quantities. The advices from the leading counties, such as Napa, Sonoma, and Los Augeles, state that the vines are in magnificent condition, and that, barring unforseen events, the yield will be upparalleled in the State, some sanguine judges estimating the value of the wines at over \$4,000,000. There has been a large increase in the facilities of the wine-makers to handle a large crop, some of the steam-presses and apportenances having excited the admiration of the French Commissioner who was sent here by his government to report on the viticultural resources of From present appearances it is California. supposed that grapes that communded at the wineries from \$20 to \$22 50 a ton will show some decline in price, especially among the lower qualities of grapes, such as the Mission. Even at a reduction there is an ample margin of profit, considering that five years since this species only brought \$8 a ton. Such prices, however, would never have given that impelus to a higher range of cultivation that will probably place Culifornia at the head of the viticultural countries of the world.

In view of this increased estimate in the yield the transactions in our native wines are of somewhal inactive character, the more so us it is calculated that from 800,000 to 1,000,000 gallons of wine remain of last year's growth. But good qualities always command fair prices, There is another question that induces freer offerings, and that is the cooperage, the demand for vats, casks and harrels in the various vineyard districts being larger than the supply; but this want will probably be romedied by the time of the vintage, Great attention is being paid to the proper preparation of the foreign species of grapes, the product being deemed invaluable in the future, not only in the making of higher grades, but also for blending purposes with the cheaper varieties. There is an immense interest taken in the procress of the viticultural resources and an euruest endeavor on the part of our wine makers to surpass the qualities of European wines that have hitherly been so much in vogue in this country. The result during the past year has been salisfactory so fur as the demand at the East for our wines is concerned. Unfortunately these wines are sold under foreign seals, but it is not the fault of the maker or dealer on this coast who, owing to the large prices they have to pay for bottles and cases, and the heavy cost of transportation, are obliged to ship their wines in bulk. But this will be remedied gradually as our wines are recognized at their inherent worth.

J. W. Cook, an old Chlcoite now farming in the vicinity of Orland, has struck a rich thing lu con-nection with J. L. Jordan, a miner of much experi-They have discovered a rich lode of copper about two uilles northwest of Smith's Mill, Stony creek. The ledge is about twenty feet thick, with the necessary wall rock to indicate a lode. It has long been known that copper ore has been has nong been known that copper ore has been found on Stony creek. About twenty years ago, Mr. Seribner, an old settler there, discovered some rich pieces ol ore, but no ledge could be found. The location of the present discovery must be about ten unless from where the first indications were tound.—Red Bud? Sentinct.

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President....SIR A. T. GALT, G. C. M. G. Vice-President... RON, JAMES FERGIER, Manuglug Director.....EDW. RAWLINGS. HEAD OFFICE, MONTREAL, P. Q.

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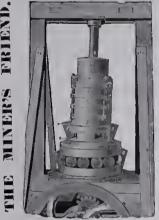
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\$772 A week made at nome by the iministring fleet business now inforce the public. Capital many and gettle wanted every where the public. Many wonet, buys and girls wanted every where the work for me. Now white thin to the business work in me time, or give your whate thin to the business. No one out fall to make enormous pay, by ongaging at more. Costly on 61 and terms froe, Money made fast, early and honorably. Address, Thur & Co., Augusta, Maine.

The Dixson Tribine has the following concerning one of the most rapidly growing sections of the

It is generally conceded that her yield per acre is greater than that of any other county in the State. But it is not alone in the production of cereals that Solano excels. She is rapidly growing into favor as a grape-growing district. The soil and chinate are exceedingly favorable for the successful antivation of all varieties of grapes, and some of the most excellent Califorum raisins now in the market were cured in this county. The fruit business of the county has also assumed mamnioth propurtions, especially in the footbills extending from Winters to Vacaville. Indeed the yield has been so large, the ilemands steady, that orchardists of that vicinity are rapidly becoming wealthy, and the Vacavilte Fruit Belt is becoming fumous the world over, not ouly on account of the excellency of quality, and quantily of the fruit, but also because it is invertably the lirst in the market. The same observations are also true, in regard to vegetables. There are large bodies of land in the county, that will doubts he subdivided in a few years, thus affording farms and homes for a much larger population than the county now has. Along the foutbulls, there is also a great iteal of land that is used for stock ranges, that is well adapted for the profite production of all kinds of semi-tronic truits. same lands, under the same conditions, if situated in localities that have been systematically adverdollars per nere. In the bands of men of enter-prise and four humited very valuable, and exceedingly remnuerative. The thriftless and indolent selden prosper snywhere, but in this valley, the husbandman rarely fails to reap the reward of his industry. The rehable, industrions farmer not only makes a good living, but in time becomes independent. As an evidence of the profit to be derived in the fruit husiness, we will here remark that John Wolfskill, who lives in Solano county, near Winters, gathered and solid \$4,800 worth of apricots from 250 trees standing on less than three seres of land this year. The moral sentiment that pervades the county is good, and is gradually growing better. Oburches are numerous, and congregations large. Our public schools in a splendid condition, and there are enough of them to afford ample educational tacilities for every child in the county. In addition to these, our peo-ple support half a dozen of the best colleges and academies to be found in the Slate. The advantages of soil and climate, the health of the community. the educational facilities the people enjoy, cannot be too highly estimated, and we again repeat our invitation for every outerprising and industrions man lu search of a spot upon which he can erect a home, to come among us and examine the county for himself. Information derived in this way is decidedly more satisfactory than that obtained by means of maps and highly colored advertising pulls.

## CALIFORNIA IRON.

Speaking of the furnaces of the iron mines near Chipper Gap in this county which, after re-building, have lately started up, and which are now lurning out considerable iron, a mining exchange says: out considerable from a uning extrange beyon. This is the only from mitting we are doing in California, although iron is found in many parts of the State. The Chipper Gap iron is first-class, and is purchased as fast as produced. Arrangements are now being made at the Judson works to put up the necessary works to make wroughl iron of the pig from these mines. The rolling mills already built there will be extended as soon as iron can be supplied for them from this source, and it will not be loug before this is done.

It is in industrial enterprises of this character that much of the future welfare of this State de-pends. We have been dependent for iron on our imports, and this home product will be of greal as-sistance. Of course, this mine cannot nearly sup-ply the demand. Still, it reduces the importation appresiably.

The new furnaces work well, and the tron turned The new formaces work well, and the from arbota out is "No, 1" in every respect. It is to be boped that il will not be very long before other iron deposits it this State will be developed, so that some time to the future we will be undependent and be able to produce all our own iron.-Placer Herald.

## A LARGE GRAIN TIELD.

The Anderson Enterprise of August 8th, says that there will be more grain in Shasta county this year than was ever harvested before, in any one year. Wheat will average thirty and barley forty bushels to the acre. The largest crops have not yet been harvested. The grain crop to the Baid Hill conharvested. The grain crop to the Bain triff color-try will be immense this year. Fred Glassor had nhoety acres sown to wheat and harley, which aver-aged furly bushels to the acre. It will be but a few years until the Bald Hills will be averaged. need. Thousands of acres of tillable had now lie in that section mentitivated, waiting for some energetic settlers to homestead it. Forty bushels to the acre is a hig yield in any country.

THE RESOURCES OF CALIFORNIA is the best paner to send to your friends abroad.

#### SANTA BARBARA'S FOOTHILLS.

The Santa Barbara Press discourses as follows concerning the value of its footbill lands

People are awaking to the fact that there is more wealth in a well cultivated vineyard or fruit archard upon the mountain side than in a broad barley field upon the level near the sea shore. The exthe foothills of Sauta Barbara County, proves the assertion that the most valuable portion of our lamb are those nearest to the mountains. We have in the vicinity of Sunta Barbara foothill lands enough to give profitable employment to several thousand, industrious familles. But the lands should not be devoted to grain growing. Let the lands near the sea he surrendered to beaus, barley and other cereals, but let the warm fertile footbills he all reserved for those purposes for which they are most profitably adapted, Peaches, Prunes Apples and Apricots—ull of them valuable and retunnerative where counting or drying facilities are accessible, should be planted where the soil is suitalite. They will mature without irrigation almost anywhere in our adjacent foothills. There are anywhere in adjacent rootening, certain varieties of grapes which are peculiarly adapted to this region. These too, can be largely planted and require an irrigation. The orange and lemon mature beautifully to the sheltered valleys of the Santa Yuez range, and when we think of the olive and English walnut and the enormous profits realized by those who have devoted time and attention to their cultivation, we wonder why the fouthills have so long been neglected. There are thousands of acres of rich lands near the footbills which may be had for one tent blue price of the ebotee valley lambs. Why is there not more attention devoted to these fertile uplands? The time is not far distant when they will be the most valuable and productive lauds in the country. They have been tound to be the best lands for the grape and cutring the productive lauds. fruils in Los Angeles County and we predict that ere long they will attract more attention here.

### THE VINEYARDS OF FRANCE.

The production of wine in France seems to be on the verge of destruction from various causes. New York Sun says:

"The French brandy' merchants are moved at the publicity given to the tricks of their trade in the English newspapers. The figures given by their own Minister of Agriculture in his report on the wines of 1882 are conclusive as to the fact that the vineyards of the two Charentes, which alone supplied the genoine wine brandy, are irretrievably rained. These two departments, which were devoted almost wholly to grape culture, gave 311,000,000 gallons of wine in 1875. Last year they only gave une-eighth of that quantity, being a falling off of 273,000,000 gallons; and the quality was execrable. The condition of Charente proper which produces the true coguac, is even worse, for the vininge gave only the twenty-second part of the yield of 1875; and the ravages of phylloxera are each successive year going from bad to worse. In each successive year going from basic votes. fact, the pest has now interly destroyed out of France nearly 2,000,000 acres of vineyards. Besides this, 1,600,000 acres are now in different stages of destruction, which goes on at the rate of three years to each plant, for that is the time the fusect takes lo hill the bardiest vine."

## HOPS AND THE OUTLOOK.

According to the facts which we bove so far been able to gather Mendocino's outlook for hops the able to gather Mendocine's outdook of the present season is most promising. With newards of fifteen hundred acres in bops, which is an increase of over eight hundred acres, the averago yield of which should be one thousand pounds to yield of which should be the first and the acre, this year's production will exceed one and a half utilition pounds, which will give to our hop raisers, if fifty cents per pound should be the price received, the nice little income of \$750,000. In other portions of the State where hops are growe the increase in acreage has been equally as great as in this county, and the present cuttook for an enormous yield elsewhere is just as good as here. The prospective hop yield in Sacramento county is placed at 2,500,000 pounds, by the Remark Union, where between the and six bandred hales of old hops are still being held by the growers.

The following prices prevailed in New York on the 15th of July. New York, crop 1883, 75 to 80 cents; Pacific Gosiat, new, 75 to 80 cents; Bavarians, choice, \$1 to \$105; Bohemmans, choice, \$1 to \$115.—Memformo Disputch. other portions of the State where hops are grown

enny Disputch.

### HORING FOR GOLD.

A new plau of prospecting for placer gold is by boring a hole about three feet in diameter by using

boring a hole about three teet in diameter by using an anger of peculiar form. Speaking of an opera-bou of this kind the Plurmus Nutional sugs: The work of boring Milla' big shaft is going steadily on, and about 156 feet of tubing is now be. The borer goes down from two to three feet bedy, and for the past two weeks has been cutting through a beautiful bed of blue gravel, which conturns same gold. There are many indications that the bedrock will show good pay and the best namers who visit the shaft are highly pleased with the character of the gravel. JUST WHAT THEY SHOULD DO

Bro. Filcher, in the Placer Herald of Sept . 22nd, suys:

"The prosperity of our county depends, to a great extent, on the mining industry. have plenty of mines in Placer, some of which are being worked and doing well, and many others which might be made profitable if developed and properly worked. To develop and work our mines we need more or less capital, and to attract capital we must make a stir. There is much that might be said about our mines to advantage, but the information is largely in the possession of the miners. They should make a point to inform the press of their operations. Any Item regarding a new discovery or development in the mining line, or the result of a run or clean up, will be thankfully received by the Herald, and take our word for it, such items, when faithfully recorded, go far to increuse the interest in our ment of its at present dormant resources. Let us hear from you, miners, everywhere, as to what you are doing."

Good for Filcher-stir them np-arouse them from their lethargy, and from the almost unlimited resources of old Placer county there will ensue results which will astonish everybody. Placer county, in our opinion, has hundreds of what are termed law-grade ore mines, that, with an ontlay of a small amount of money-in some cases, of only a few hundred dollars-will yield good wages for a man's natural life, and his children's afterwards And not only does this hold true in Placer, but in several of the mining counties adjoining. Men having small veins of quartz can bow obtain the means of working them for very little money. It is said, by those who have tried it, that the DYER CANNON BALL QUARTZ MILL, II newinvention, advertised in the columns of this paper, is just the mill for poor men, with small means, having small, paying quartz verus to work. As will be seen, by reading the descrip-tion of this new mill, it is inexpensive, compuratively. Miners, arouse yourselves, now is your time! Give the information to your local papers, and we will spread it broadcast to the world, through THE RESOURCES.

#### IMPROVEMENTS IN SHERRY-MAKING.

Manuel T. De Ahren has received, as heretofore noted, a patent for an apparatus for maturing sherry wine. It consists, says the sneeification, in a novel construction and combination of parts. By the old process the vessels containing the wine are exposed to long continued artificial bent, in places which may be olosed tight. This makes danger of too great heat, also of fire; injures the packages so that recoopering is necessary and canses large loss by evaporation. By Mr. De Abren's invention there are no furnaces or fires in the building, nor regular application of artificial heat. A building or chamber contains packages of This chamber is open at the top, having only beams across to support another tier of packages above. Around the upper tier of tanks is a glazed enclosure, and around this again, at such distance as to leave a considerable space, a second glazed euclosure. Through these enclosures the sun's rays enter freely and these are to do the work of maturing the sherry, being concentrated and intensified by the air chambers. This obvintes the necessity of artificial heat, except in the night time or in cloudy weather, in which case heating pipes are introduced from the outside to temporarily supply the sau's place. This process is calculated to do away, mostly, with the cost of tuel, obviate danger from fire or over-heating, and the injury to packages resulting from great and long-continued artificial

### HOW ALFALFA PAYS.

A writer in the Record Union states "that a gentleman residing in San Joaquin county lately purchased twelve acres of bottom land, paying \$200 an acre for it. When questioned as to the profits he expected to receive on the investment, having planted the land to alfalfa, he replied that from several cuttings he expected to get not less than four tons per acre, and that it was surely safe to value the hay at \$6 a ton-it is now worth about twice that. Thus the alfalfa would pay 12 per cent, per annum ut \$200 an acre for the hind. The pusturage would pay harvesting expenses, leaving the hay crop net.

#### CALICO MINING NOTES.

The lower tunnel of the Garfield has been pushed forward twenty-four feet for the week ending August, 18tb. The north drift at the bottom of shuft is being driven ahead. Lurge deposits of are will be mined as soon as the tunnol is completed on the lower level. The bullion shipments from this mine speak for its richness. From four to eight unners producing \$10,000 in bullion per month for several months past speaks more eloquently than

The Gohbler mine still bas a large force of men at work. It is producing more ore of a high grade than ever before. The south drift is still in good ore and is being pushed forward rapidly. Mr. Dessallier, the foreman, is quite cluted over recent developments and speaks very encouragingly of the bright future of the

The Occidental, in the same mineral helt as section of country, and promote the develop- the Golder, has been leased to Englika & Co. A fine grade of ore is being mined by the lessees. All that the mine needs is a little energy on the part of the owners, to do a little work towards developing instead of "gophering," as as so common among mine owners in this

The Bismurck, adjoining the Humbug, has been bonded by the company in which Lient .-Gov. Daggelt is a member. Work will be commeuced in earnest by September 1st. An ore bin and shutes to bandle the ore cheaply will be completed by the first.

Work on the Humbig has been suspended for awhile. The owners are taking in San Berpardino for a change. Over a thousand tons of ore are already imped and on the damp.

Work on the Newbill mines situated about three miles east of the Waterman mine, is being pushed forward as rapidly as possible.

The Cuba No. 1 mine is showing up as well as ever. It will not be long before unother sbipment of ore will be ready for the mill,

Mr. Sparcula has resumed work on the Morning Brow in East Calico,-Calico Print.

#### AURIFEROUS GRAVEL.

Col. Mendell says in his report to the Secretary of War: The quality of suriferons gravel on the slopes of the Sierras is practically unlimited, but only a comparatively small quantity of the whole deposit can be worked by hydraulic method, by reuson either of luck of full, capping by volcanic drift, or poverty of the gravel. An inspection of the mines tribuntury to the North Fork of the American (including Forest Hill) shows that they contain a workable gravel of about 75,000,000 cubic yards, of which about 20,000,000 yards are at Gold Run.

On Bear river there remains about 50,000,-000 yards. On the Yuba they may be assumed at 700,000,000. On the upper Feather the miners find untural storage for their detritus; ou the lower Featber, near Oroville, there seems to be no practical method of storing the deluis. Ou the Cosumnes and other southern rivers there are considerable amounts of gravel, but information at hand is not sufficient to warrant positive estimates. The nagregate amount of gravel not subject to the hydraulic process, but which can be worked by drifting, must be considerable, and, as wages become chemper, promises to take great proportions and to continue for several generations.—Nevada Transcript.

#### FRAUDULENT WINES AGAIN.

Albert Rhodes, at one time Consul at Ronen, has sent un important report to the State Department, which has been officially published. former report on fruidulent wines drew npon Mr. Rhodes some bitter criticism by Freuch producers and dealers. He may reuffirms all heat first reported, and supplements it with new charges and proofs. These show that the fulsification and adulteration of wines have not been checked in the least. He cites the fact that the French Government itself has brought out by official analysis all the facts he had recited. These disclosures were made in the interest of public health by a fearless bureau of the Parisian municipality, and subsequently by the State Department itself. Mr. Rhodes now charges that wine production has for some years been stendily decreasing in France, and the demand has been met for what sould not be grown by deliberate manufacture of spurious wines .- Record-Union.

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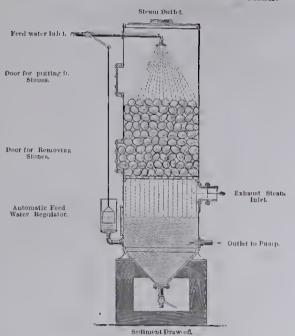
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### MINING IN SHUTHERN CALIFORNIA.

The Los Angeles Hernld gives a short sketch of the progress of mining in Southern California durlhe past few years: We quote the following:

The progress of Southern Californis has been published from time to time an regard to the growth of agricultural industries, but no comperfision has yet been made in regard to the growth of the intring influence and the local state of the intring influence in the hest placer influence and the oldest in California, the yield has not been as large as it might have been, on account of some legal contests, that have stopped the opining of some very extensive beds of auriferous gravel. The questre mill at the Frazier gold mine is idle on the same account, so that the yield for the past year amounts to probably \$50,000 of gold and \$17,000 in silver. Had the hydraulic mines been worked, and the Frazier mill here ring ming, the yield night have been quadrupled in 1882.

"In San Bernardino county there has been no special hindrance to unning, but on the contrary great and profinible progress. The mines of that county profined in 1882 about \$150,000 in silver and \$20,000 in gold. But since the beginning of 1883 the mark of preparation began in 1882 has resulted in a most enquans output of silver. It is estimated that the Bonanzs King Mine, at Providence Mountain, will yield in 1883, \$700,000; the Dugget mill, \$200,000; the Waternammill, \$300,000; the Alhambra mill, \$250,000; the Ibex mine, north of Calica, \$210,000; while of one shaped from Lavid Bed, Calic, Eagle Mountain, Grey Eagle and other places in the county to San Francisco, the value rannot be less than \$250,000 more, making for a calcimic year not his than \$2,550,000.

This prodigious change in a year will astonish the people of California and show that Southern California is the heat mining country in the world. San Diego county is longing up and mereasing the output of bullion, principally gold. The yield for 1882 was \$100,000 gold, and \$100,000 silver. In 1883 the yield will be largely increased by the Pinacate and Gabilan mines, which will double the gold yield at least, making \$300,000 for that county. In the north part of Los Angeles county there is a vast amount of guld bearing rock and surriferous earth that only needs capital and intelligent mining to be immensely profitable. From the arrangements that are now being made to develop many mines that are now open, and to open a large num ber of rich claims, it is fair to presume that in 1884 Southern California will produce in the three counties of Los Angeles, San Bernardino and San Diego, not less than \$5,000,000. The mineral is near the surface in our richest mining region, for gold silver and copper, while soda and borax are found in in-xhausticss quantities, like the soil of the prai-

#### SIERRA COUNTY MINIMU PLEMS.

From the Forest City Tribune, of recent date, we take the following:

Seventy-five men are employed at the Ruby mine. The Homestake quartz mill, located on Ruck creek, is running steadily.

A large shipment of gold bullion was made from the Itainbow mine last Saturday.

the Raid Mountain Company, of Forest City,

cleaned up 170 ounces of gold last neck. They are finding good pay in Lowell avenue innuel.

Filly-three ounces of gold was reslized from 400

Filly-three ounces of gold was realized from 400 carloads of gravel taken from South Fork ground and washed last week. The Forcat City people feel highly elated over such fine prospects.

highly elated over such fine prospects.

A gentlemen from San Francisco examined the Plannbago mine last week, with a view of making a report on the same to an English company. The Plannbago quartz mine is located at Minnesota. The mine has been opened sufficiently to prove that it could be made a big-paying property if properly hamilled.

J, Minor Taylor is expected to arrive here from Virginia City acon to start up work at the Savage mine. The recent developments made by the Baid Mountain Extension Company are liable to create a boom all along the ridge this summer. It is the opinion of all those who have pind any attention to the workings of the Savage mine that a channel will be uncovered in the claim at an early dute.

## DICK SEPARATION OF GOLD FROM SAND.

A novel apparatus for sepanting gold from sand with out the use of water mus recently completed and tested in this city. It is intended for use in the placer regions of the West, Mexico and Central America, where gold bearing sand is found at a distance from water sufficient for bydraulic mining. The machine is about five test in diameter, and is arranged to throw the sand by centrifugal force aguinst a "wall" of mercany maintained in position by contribus a action. In this way, it is claimed, every particle of gold is brought in contact with the mercany and minipamined, with the small is blinked away by means of an air blust. The muchine is said to clean a ton of sand in treany mines, and to be so through finite operations as in make it possible to work over with profit the tailings of mines a orked by other systems. The power required to operate the machine is not given.—Solendife Jamyrons.

#### THE TIDE OF IMMIGRATION.

Week by week we are fold of the arrival of immigran's to the time of 1,000 or 1,500. ber of the newcomera are men with families growing up around them, and a little means in their wallets. They are occupring the waste places of the State and developing new homes a here rich tosources and howers of beauty will largely recay then toil. The arrival of such as these will meet surely call for a large development of manufacturing establishments of various kimis, and these to thru will call for more monual bilingers and skilled mechanics. These will lumbe an ever increasing consumption market for the products of the farm, the oreliard and the guiden, and such branch of growth provides further growth in the other branches. The tide will continue to set this way, It is a pleasant reflection that we in Sean-Trupic California stripl so advantageously related to this as compared with other purts of the state. The Sauset Route is uniong the prime before in this good woth of immigration and development. system of calroads has affered the most advanta-geous rates of all the lines, and hence this stream of new blood passes along this main artery of travel through Los Angeles. The work of natural func-tional selection, as the doctors say, will seize on and appropriate what of this is best suited to our and appropriate what of this is not similed to our needs. To sunegrowers, orohardists, gardeners, miners, steck-men, and scores of other occupations, this regian will hold out using hards of cordial releane, and here, under their own vine and figtrue, many of the new Argonauts will take up their abodes. It will be like those famous Greek wanderers of old who bound the Lotus Lami, Once here they will find an entirement sufficient to cause a resumption of their wanderings. They will come to stay, to develop our tich resources and enrich themselves-Los Angeles Express.

#### A GREAT EXTERPRISE IN SAN BER-NARDING,

The people of San Bernardino are showing great mettle in improvements. They have formed a syndicate to construct an imminense reservoir in Bear Valley, by building a minister dam seroes Bear Valley Canyon, 100 teet long and 45 feet high. It will form a lake covering more than a thousand acres ten to twenty feet deep. This will be a very nice little lake and a comfortable kind of reservoir. The land has been purchased which will be overflowed by this lake, sind work will go forward at once and carried to completion while the canyon is nearly free of water, so that the great basin of Bear Valley can be filled by the rains of next winter. Heretotroe the onter which ran noto the valley in the winter bas the barged itself down the canyon, but that discharge will be stopped by the dam, and the little pond that usually remains there will be turned into a beautiful lake.

The dam will cost \$10,000 and the whole affair cost aliont \$35,000. The interest on this will be pail by leasing \$200 acres of the surrounding land belonging to the syndicate for pristure. There is always mater in Bear Valley, and the ground is of such a nature that the water will uct sink, the only loss being from evaporation. The parties in the euterprise, so far as known, are Judson & Brown, J. G. Burl, Louis Jacobs, Hiram Barton, J. A. Gibson, F. P. Morrison, W. C. Bottler and G. A. Cook. To the list of local capital is to be midded George W. Myale, of San Francisco.

This is just the kind of enterprises we want in Southern California, and we loope to see more of thrm begun at an early day. There is no sloubt of the success of the Sau Beruntiline project, and this success will produce a "go and do likewise," Los . Inquies Herald.

## VINICULTURE IN THE SANTA CLARA VALLEY,

In speaking of the future of this interest the San Jose Merxing says: It has never so bright as at present. Vast sams of

money are being spent in preparations, but all feel sure of obtaining full returns for the outlay. The grape crop has never failed yet. This year it is light in places, but with the prices offered the owner of a good vineyard has a bonainza of the nime even then. All that is needed is eare in the choice of soil and exposure, in the selections of entitings and in the entitration of the vines, and in those unitters in man has simply to watch his neighbor. Wherever he locates be will find vineyards mar him, which can be taken as models in all respects, and men of brains and capital are providing a sure market for all the grapes that can be grown. Such being the facts, it seems that no man can be wrong in planting a few acres with vines, if he has the right soil. The acree, properly circle for, will bring a good highlood for a family without any hard nork, and, indeed, demanding no more labor funn is necessary to exercise a healthy man and him family. Such an amount of haid can be find to the order than two hundred to two thousand delibers, and the whole expense of bringing it in rore wineparl into good bearing condition need not be more than two hundred dollars. In whatever other business can a comfortable and imbourdent Itrelihood he seemed for so small an out-

#### THE SEEDLESS SULTANA GRAPE.

J. B. West, of Stockton, one of the well-known State Vittenliural Commissioners, turnishes the Callimiter, Guide with the following valuable information concern-

ing the Smalless Sultains grape: ing the Scalless Sultain grape:

To whom belongs the crulit of first introducing this grape to California, I am mable to say. As it is a variety well known to mirserymen in the Easiern Status and Kirope, it was probably sent in several collections.

In 1863 i saw it among the vines that were received from In 1865 leaw It among the vines that were received from Col. Harnaville, I also saw a vine of it in the conser-volory of the Agricultural Department at Washington, and was told that entitings had been sent in Tultfornia. There were a few vines on my place as early as 1862. Not conshibiting them of much value, I did not propa-gate them until 1868, when I commenced to distribute gais thore until 1888, when I commenced to instronce them from my mirrory, and at the same time planted a few more for family use. It is trom these few whose that a great partion of the vines now planted in the Saile have aprung. In the years up to 1878 I did not consider them of any special value, as from the mode of training that I adopted—ite short spur system they were only moderate bearers, and my time being occupied by the musery business, I did not give them

occupied by the univery observed.

10 1877 I sold 400 vines to Mr. R. B. Blowers, of Woodland, who was the first to make their cultivation marked ancess to California. The vines multic big judicious management bave been made to produce wonderfully, and an entirely new aspect has been given

womerfully, and a cutting few samples state.

The success of Mr. Blowers would indicate that the vine requires high cultivation. By these means he gets very large crops, as much as ten and twelve tons per arro. My soll is of a different character, being a strong, clayer loam, underlaid with mark into which the routs have difficulty in poneirating. I do not irrigate, the consequence is that my vines require a longer time to arrive at full bearing, and I bave only been able to get

arrive at full bearing, and I bave only been able to get from the lo six ions per acre, although my vimes are one year older than those of Mr. Blowers.

The Sullians requires long pruning, by the short spin system, which to used on the Mission and many other vines, it is not profusible, as I have brateed by many years' experience. I can not, in this paper, give a full description of the method of long pruning, which can be better framed in the vineyard. It will be sufficient to say that the stock is headed down to about a foot from this ground and trem this pour two or uncreases, to say that the stock is limated down to about a fool from the ground, and trom this point two or increcanes, according to the strength of the vine, are brought up for hearing wood the following season. At the winter's pruning these should be lett two or three feet long, and pruning these should be left two or three test four, and also short spins with eyes enough to produce wood for the next year. All the balance of the vine, including the wont that has borne a crop last year, should be cut off. Those who have tollowed the short spin system, and have their vines already tormed for this system. will find it to their advantage to change it immediately

will find it to their advantage to change II homediately, even at a loss of a portion of their crop for a year or two. The maturity of the grape varies much with the sesson and locality. At Slockion, in early seasons, I have heen able to commence trying the trull by the lenth of September. This has not always been the case, low-ever. In 1881, loss season hein backward, I commenced on the 20th. In 1882, being a still more backward season. I was compelled to wait much the 25th of the same event before a season.

son, I was compelled to wait anul the 25th of the same month before I could confluence to pick. The consequence was, that I losi a portion of my crop by the unusually early rains which commenced a few days after. At Fresno, where the climate is much botter and drier, I sm told that the grape will ripen by the 20th of August. This will give growers there, and in other localities similarly located, a great advantage over us, as calittes similarly located, a great advantage over us, as they can rasity have their crop circul in ten to twelve days, whereas, if they were compelled to wait a mouth laier, it may take from twenty to thirty days. Care should be liken that the grapes are not picked before they are tully ripe, which can always be determined by the laste. When while are bearing heavily it will be found that some bunches are riper than others. The carly causivers should be picked as soon as ready, as this will give the others a chance to mainre. It is the custom to Calitornia to cure grapes upon wooden plaining the proper of the control of the proper of the tom in California to cure grapes apon woven plan-forms, or trays, and it is particularly desirable to do so with this grape, as it is very small, and would be wasted by drying upon the ground. After the ruleins are fully cured it is only necessary to rub them from the siems and pack for market. It is the russom in the Sultana districts of Asia Minor to dip the grapes in the Sultana districts of Asia Minor is up the grapes in lyce he fore drying. This cracks the skin and allows the grapes to cure much quicker than they could otherwise. They are also ditted in the shade, which gives them the light color so noticeable in the imported article. It would be well far our raisin-makers to experiment up-on a portion of lifeir crop, with a view to imitating

the imported Sultana.
This vine is subject

the imported Sultana.

This while is subject to the same diseases that all grape where are. Its tender leaf is a favorite with the rabbit, and the wine-hopper takes apacial delight in rawaging it, jut such is its vigor that when pruning time comes we barrily notice their work.

The seedless Sultana raisin, as produced in California, has a very deticate diavor. It is not, pertags, as rich as the Muscaled, but it is very suitable for cooking, and should recommend liself to every housekeeper who uses the dirty, grilly Sante central, or the bigh-prized imported sultana. To the city baker and picture, it have no necessary to the city baker and picture, it have no necessary disconnicting. I was, hast year, competied to sell the product of seven arres of Sultana grapes, that the season would not permit in to dry, to the wine-makers. They were satistical, and wish

#### MANUFACTURING IN SAN BERNAHDING.

in a conversation with Mr. R. W. Waterman, sluce his return from the east, he informed as that with there he met a prominent paper manufacturer who ev there he next a prominent paper immediaturer who ex-meed considerable interest in Southern Californiu, and made numerous impuries concruing the opening here tor a paper nill. There can be but little doubt but that an eni-prise of this unior would pay tamboundy on the lavestment in San Bernurdino. We have in this county superfor manufacturing facilities in water power, climate and location. Situated directly on the South-ern Purific ratiood, with the California Sunthern scientists toward the coverage corden path of the we have cell Furial restricted, will the Cantonia Solution politing toward the great region mutth of us, we have railroud facilities to reach the whole interior country. Every sheet of paper used in Southern California and Artzona has to be imported, while vast quantities of paper remiertal rol on the ground for want of profitable use. On the desert the Yucca furnishes applicated use. brial for the paper maker, which is taken no forther advantage of than to be reduced to pulp in small quantities and shipped away to manufacture and after quantities and shipped away to manifacture and after-wards shipped back again in its prefect site. There are vast stores of paper material that could be utilized here had we a will to use them, and there is a large delit to which such a mill could look for a market. There is money in wrapping paper, siraw paper, bournly, and such coarse productions alone, swell for mewspapers, hooks and calculated papers were not imade, but we believe that even the manufacture of the finer qualities of paper would pay well too.

San Bernardino offers especially good epenings for manufacturing enterprises, and the day is not far distant when they will be availed of. The elimate renders expressive buildings unner sary, and finel, often an item of great expense, is here reduced to a minimum. Work can be continued the whole year and there need he no stoppage on account of frenze-onts or floods. There is a wast market for manufactured articles in the mining country around us on all sides, which manufactures nothing, and in which the greater portion of the ground is sow used are imported from the East. Water the goods now used are imported from the East. Water power is bere in abundance, and one or two of our mountain streams would furnish ample power to drive all the machinery on the Pacific Coast, and now hes idle. Living is cheap, and labor can be had as reason able as in the East. Taking all these advantages to gether, therais no reason why manufacturing industries should not pay better than there. It is but a matter of time before all our natural advantages in this respect will be appreciated and manufacturers get a start among us, and once introduced others will follow in rapid succession, while those who come first will fare best.— Sau Bernardino Times.

#### SMALL FARMS.

Wherever the small farm has been thoroughly iried it has proved a success. It has been a common error in the minds of the people of California that nothing short of hundreds of acres would pay the tarmer. Our when to himdreds of seres would pay the tarmer. Our valley lands are rich in productive qualities, and by a proper system of tarming bose qualities might be developed to the end that a good living for a man and family can be obtained from a small farm with a handsome predi heades. In old settled countries, where land as no hetter adapted to the natural productions than ours, small farms, in many instances less than 30 arcs, support large families and show a signs of thrift int tappiness. Then why can not our valley lands, which are tavored with every natural quality and advantage be utilized and brought into a high state of cultivation, to the delight of our people and the advantage of our fast increasing population. The reason, why large tarms are less profitable is very obvious, to samuch as the proper amount of labor necessary to a high state of cultivation is neglected in the right to ophost in season; the seeding and cultivation of crops plant in scaon; the seeding and cultivation of crops being done, not in proper season, but when opportunity idepending upon various natural causes) presents itself. The result of smail farinted was shown to a statemen from a man living near Davisville, Yolo county, and recently published in one of the Sucretorate papers. He states that he owns but ten acres of laint most of which is planted to fruit trees and vines, with but an acre or two for vegetables. He states that last year be supported his famity, a wife and one chitd, and after aupported his familty, a wife and one Citti, and atter-carefully footing up his produce receipts, and deducting expeniitures, he had about \$800 left as a clear profit, the result of which must be credited to fringality and practical farinting. The above its bit one instance of the advantage shown to exist in small farines. Our load is well adapted to the critiure of truit and vigetablica, and those of our small tarmers who have farined their sections to receiving industry exponent and trunsitive. and those of our small termiers who have farmed their soft well, practicing industry, economy and trugsity, have made a great deal more money, in proportion to money invested and land tilled, than our largest and seemingly most enterprising farmers. One bundred and slaip screen tour valley land is sufficient to main-tain any family and tracts in excess of that amount owned and farmed by our tarmers, are intrinential to the development of our agricultural products.—Sufter therets.—Sufter

#### GOOD NEWS FOR WINE MAKEUS

For some years past there was been a law in Iowa prohibiting the shipment this that State of whice and lupmers made outside thereof. Cautornia being an ex-porter of wines and branthes, her i rade has suffered congrape, I neve no means of determining. I was, last year, compelled to sell the product of seven across if Sulman grapes, that the season would not perint including the season would not perint including the commence of the law, which effects to huy my crop this year.

The amount of accelers raising this far produced has been so limited that it is hard to determine what the demand will be for thom. When the vines now plausic come into hearing we will have to book in the East for consumers. Previous to this time no oper-land baseen of particular through the vine and higher trade showhere. There may rome a glob in the mark it, in consequence of over-production, and for a two years the price may rate law. This will have a tendency to increase the consumption, and higher the major raise of the accepted the question of this tank, which is distributed and branches, the frame beautiful through the question of this tank, which is distributed and the barrier had been removed, that the sum of the forethatty shift her out of the forethatty s



BROAD GAUGE.

## TIME TABLE.

Commencing Monday, Sept. 3, 1883, And until further notice, Passenger Trains will leave from, and arrive at Son Francisco Passenger Depot (Townsend St., between 3d and 4th streets) as follows:

l	LEAVE	DESTINATION.	B. P.
	8:30 A. M. 1 9:30 A. M. 10:10 A. M. * 3:30 P. M. 4:25 P. M. * 5:15 P. M. B:30 P. M. \$11 t5 P. M.	Nan Matro, Reilwooil and Menlo Park	6:40 A. R. 8:10 A. M. 9:03 A. M. 10:03 A. M. 3:36 P. M. 4:55 P. M. 6:00 P. M. 17:50 P. M. 18:15 P. M.
	8:50 A. M. 10:40 A. M. * 3:20 P. M. 4:25 P. M	.Sania Clara, San Jose and, Principal Way Stations	9:09 A. M. *10:02 A. M.  * 3:30 P. M.   0:30 P. M.   † 8:15 P. M.
	10:41 A. M. * 3:10 P. M.	Gilroy, Pajuro, Castroville, 1	*10.02 A. M. 6:00 P. M.
	10:10 A M * 3:30 P M.	. Hollister and Tres Pinos.	6:00 P. M.
	I0:40 A M * 3:30 P. M.	Watsonvilte, Camp Gnodall, Apios, New Brighton, Sognel (Camp Capitols) and Santa Criz	*10:02 A. M. 6:00 P. M.
	10:40 A. M.	Soledad and Way Stations	6:00 г. м.
	1 7:80 A. M.	(Sumlay Eventsion)	1 7 40 F. M.
	Saturdays o	excepted. †Supplays only. †T	heatre train,
	Claus sony	actions are made with the 10:40	A. M. Train.

Sings connections are made with the 10:40 A. M. Train, except Precapeno Singes via San Muleo, and Pactric Cononess Surings Sings via Saute Clera, which connect with 8:30 A. M. Train,

CONDERS SUPPOS SINGS VIA SAITS CISTA, WHEEL CONTINCT WITH SAITS AT RESIDENCE WITH SAITS AT RESIDENCE WITH SAITS AT RESIDENCE AT RESIDENCE WITH SAITS AT RESIDENCE WAS ASSESSED AS A ASSESSED A

SOUTHERN DIVISIONS, TO For points on Southern Divisions and the East, 600 C. P. R. R. Time Schiedule.

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ARABIC	T	huraday, June 28th.
OCEANIC		Tuesday, July 10th.
COPTIC		aturday, July 21st.
ARABIC	Saturd	ay, September 16th,
OCEANIC	Thursii	uy, September 27th.
COUNTRY	119sure	class (butcher lith)

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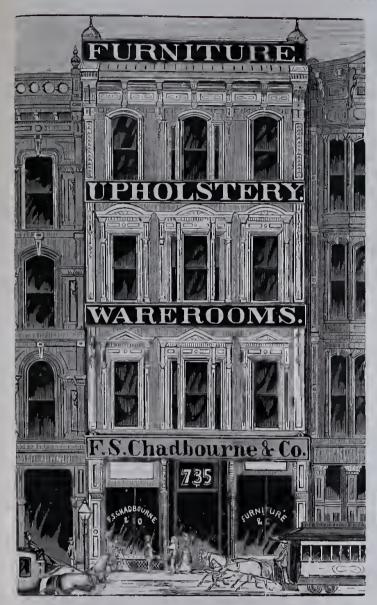
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### INVITING TO NEW HOMES.

We take the following from the Chicago Prairi Farmer, which is the first of a series of articles to be contributed by I. N. Hoag, re cully sent by the Centra

contributed by I. N. Hoag, re-ently sent by the Centra Pacific Railrond Company as a Commissioner of Imminigration, whose headquarters will be in that city. I have been a reader of your very valuable paper for over twenty years. I have some knowledge of its history—its avenuful career, its usefulness and its energy. I have some knowledge of its history—its avenuful career, its usefulness and its energy mode of conveying information, as well as its energy and enterprise in collecting such information relative to all the ludistries of the country.

Your age and great (treinhitten have diverted avenue.

Your age and great etreibition have divested you of all local prejudice, and finite you in truly national agri-cultural journal. For these reasons I hold in high apcultural journal. For these ressume I hold in high appreciation your offer to become the medium through which I may talk to your many readers in regard to my adopted State, California—In these communications I shall indulge by no fancy pictures of the many and wanderful natural accuse of beauty and grandent and sublimity so frequent in California, nor shall I overdraw, by an altempt at word-painting, any of the aphondid and truly magnificent eaths of has have been created there by human energy, judgment and engal legs. (In there by human energy, judgment and good taste. On the other hand, I shall, to plane farmer language, cuthe other name, it shall, be paint and an all mathematical deavor is given your readers a good and truthful multi-standing of what California is naturally, and what she has already been made by settlement and cultivation,

has already been made by settlement and cultivation, and what she is espable of hecoming by an increase of her industrial population and an extension of the entitivation of her sell and the conversion of her broad domain into industrious and happy homeo.

Perhaps had few have an idea, or a correct knowledge of the size or immense area of the State. Let me state, then, that California is 770 miles in length, believed bounded lise entire length on the west by the Pacific occus. Its greatest width is 330 miles, and it contains its, islandarian miles, or 120,437,430 square area of land. Compared to other States of the Union, it is four

Compared to other States of the Union, it is four times the size of New York; it is twenty four times as as large as Massachusetts, it is lit times as large as

Compared to European countles, it is four afths the alze of Austria, and lucks but a fraction of equaling the whole area of France. It is nearly twice the size of Italy, and is one-half times greater than the whole British laise constituting Great British. California contains 89,000,000 acres et land suited lo cultivation

and profitable agricultural pursuits.

The population of California in 1880—the last census year—including ludians on reservations, but exciteding

Chiuses and Japanese, was 189,617,
With one-fourth the territory, New York had a population of 5,000,000, or over six times the population of lation of 5, California,

With one (wenty fourth the territory, Massachusells

With the same territory, France has a population of 36,000,000, or forty t mus the population of California, Whon it is stated that acre for acre, or square mille for aquare mile, the whole area of California is capable of austaining a larger number of people than New York or Mansachusetis, and an equal or great r number than France, it with be seen that there is still some room for people to settle and makes houses in California

#### GRAPE GROWING,

The following article, taken from the agricultus department of the iteckly Bulletin of this city, who of interest to the grape grower of this State: city, will

viticultural interests of California are vol in their infancy. The experimental stage has just been passed, and grape and while growing can now be said to have entered upon its atage of development. Aiready, while vittentiare has been hardly more than an experi-ment, it has sided a vast sum in the wealth of the State, the value of its products this year heng esti-Sinte, the value of its products this year away examine earlies in mated at \$10,000,000. The grape, who soul raisin for terests of the State will, it is anjicipated, be even of greater comparative importance than they are now. An idea of the importance of these Interests can be gathered from the following interview with R. B. Blowers, of Yolo county:

Mr. Blowers and he had 70 acres of land, 50 of which

are in raisin grapes; his vineyard is officen years old last spring; thinks the fitteen year old vines as a whole produce mere than the younger ones, although non- of the younger vines, those that are ilvo or six years old, yield as much as the older vines. He has made as many as 250 boxes of raising from an acre of granes average good rateina are worth from \$2 to \$2.50 at will sale rates; that has been the average price for the Over years Of shipping grapes the yield will average ten tons to the area and four tons per acre of wine grapes. Table grapes bring \$40 per ion; wine grapes trum \$20 to \$30 per ton.

In answer to the question, how many years is In answer to the question, how many years is required to bring a vineyard into profitable tearing, Mr. Blowers said: That depends upon who has the vineyard. If it is bandled with judgment and shill the second year's expenses. For instance, I have a small paick of seedless Sulfauns three years old t got five lons for the third year, tend for the fourth year, twelve ton afor the fifth year, and seventeen tons for the skith year.

He was asked about a market for our increasing grand crop. He said: Prople will entraisms and will drink who. This is one of the principal industries in France and Spain, and it can be earried on more extensively in Cathfornia. There are only about two million boxes raising animally imported into the United States. We have made only about 150,000 baxes of raisins in one best year; so you see California cuts that a small signer in the supply of the United States. But a small per the ratalus used in the United Shites is produced in California. It grapes should become unprofitable tor raisins we can feed them to our pork, and the

In answer to the question, what is an average vine yard considered worth when in bearing say for five or six years, Mr. Blowers said. There are vineyards you could not buy for \$500 per seve. I have a neighbor who has five acres. He has made as high as \$1,000 clear profit from the five acres, and hired all b

## AN IMMENSE TRRIGATION CANAL.

One of the most important enterprises ever under-taken in San dauguin valley is now rapidly approaching successful completion in Merceal county. In speaking of 11 the Stockion Heralit says.

The grand results to be oblained by conducting the surplus waters of the rivers out upon the arbi planes for brigating pirpos as are no longer matters of doubt, as there are minurums health a where the shinest nor-sections changes wrought by such enterprises afford convincing proof of the great value of water as a fer-tillizing element. Mirred county routines a large area of land and which produces large crops of wheat in favorable scasons, but its liability to severe drouths has rendered its fillinge a precarious occupation. Thorough and systematicitilage has enabled some of the farmers of that section to raise fair crops of wheat with a moderale rainfall yet it has been found that, although the land Is of superior quality, the climatic conditions constitute a serious trawback to forming The grain results to be obtained by conducting the conditions constitute a serious drawhack to famning

In order lo guard against the effect of drouth, it is proposed to construct a canal sixty feet in width on the proposed to construct a canal sixty feet in width on the proposed to construct a canal sixty feet in width on the productive lands of the plains, and thence by branch differed sixthinte it over the surface of the most productive lands of the contract like surface of the most productive lands of the contract like plains, and an organization of farmers constructed a canal of limited expactly a number of years ago, from which considerable had was irrigated. The capacity of that canal was maniferent to meet the wants of that locality, and owing to the character of the rarth to be excavaled to enlarge the canal, the requisite culturguard was found in the too expensive for the original company sold its frauchise to a company of which C. H. Huffman is one of the principal atockholiers. The new company have both the capital and the plack to enlarge the canal, and several intuited men are now employed on the work, and more will be engaged as the to enlarge the cauni, and several hundred men are now couployed on the work, and more will be encaused as the surveys are completed and the line of the main exten slon intablished

sion established.

The water will be taken from the Merced river at a point about two and a half milks above Snellings and carried along the about bank of the river several miles, and then the main line will pursue a sontherly course passing to the east of the lown of Merced at a sufficient clevation to short a supply of water to all the plans from the river to a point south of the town, subtracting an area of at least one hundred thousand acres of excellent land suitable for the growth of an almost minited variety of profunts. The Merced river has its source in the higher Sterras, where it receives its supplies from the rielling snow on the holly peaks overholding the Vocentic valley, consequently it is less at feeted by Smitmer droutts than are several other iributaries of the San Joaquin not draining regions of perpetual snow. The Merced river generally carries in large volume of water until late in the season. For this reason the probabilities of the development of the magnificent tract of landupon which it is now proposed to conduct and distribute the water of this river, are largely increased, and the importance of the scheme can hardly be over-estimated. Through a well arranged in rigition the variety of the products of Mircel county will be increased almost indefinitely, the large wheat farms will be divided into small tracte, apponent of which pursuance thomes wit be established and a large district of country become sublicity iransformed from an unpeopled solitude to a scene of active, prosperous life. The work of transformation water will be taken from the Merced river at a lished and a large district of country become sublinity transformed from an unpeopled solitude to a scene of active, prosperous life. The work of transformation is already begun. The price of hand has advanced at least 50 per cent throughout the whole region of country since the fact was made public that men of means and chergy had taken hold of the work of constructing the canal. Men, who were a two months ago despondent and destrous of seeking hours in other leastines, are now horful and combined of the control of the contr are now hopoful and confident of the future of Mercent

The following is from the Plumas National. A inlie or so from the celebral d Four Hills inline, near Eureka, is a very large exopping of iron ors, which belongs to the Mohavik Company, and in one place the cre, nearly pure, crops out some 30 feet high. It is soft und easily cut, and from appearances has been used tor many generalions by the Indians us a record book of passing events and a means of compunity and a. It is exorged events and a means of compunity and a transfer. erallium by the Indiana is a record book of passing events and a means of communication. It is covered with rude pictures of animals, dier, hear, etc., and now and then men and dogadigure extensively in the "map". Heroglyphics, which are, of course, totally unimited lightle, cover large portfous of the croppings, and mixed with these can be found manes of prospectors who left their mark inventy years or more ago. It is an interesting place, and, our informant says, is well worth a trip up there too it.

### AN IMPORTANT MINING COUNTY.

The Sierra Trebune says "that Source county is yet stilled to become the first mining county in the State. The Sierra Trabuc ways "that Soura county is yet destined to become the destining county in the State, There are more extensive ranges of improspected territories of supporting a population ten thines greater than it does at this time. The mountains for interaction at a population ten thines greater than it does at this time. The mountains for interaction does at this time. The mountains for interaction are believed, by every praction intime, to contain the line bend—as the number of the return to the total the state of gan to be prespected yet. All that is needed in divelop our resources and make these monitains yield up their golden ore in a little capital. The mining prospect in Sterra contay was never as good as at present.



WENTWORTH, Editor and Proprietor,

## SAN FRANCISCO, NOVEMBER, 1883.

ESTABLISHED, 1870.
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San Bernardino at this date, as old wagons and parts of machinery are still scattered about. San Bernardino is the largest county in the Stato, covering an area of 16,000 square miles.

There are many industries followed in this contity, agriculture ranging first, pastoral and mining coming next. The mining interest threatons to depose the leadership, as the latter is growing in importance.

There are many heautiful and productive valleys among which are San Bernardino the largest, old San Bernardino, Rincon, Los Sierras, Yaclpa, Juafa Chino, Juraips, and San Gorgonio. no is the principal valley in the county being from

ket among the settlers from the East, as they so much resemble their home apple. Potstors are a good profinction and sre in demand. Many humber mills are to be lound in the mountain section as it is heavily timbered. The mills average 10,000,000 feet of lumber annually, which find markets in the mining region and in the towns,

#### Honey Making.

Prominent among the minor industries is the pleasant out-duor pursuit of honey making. The fragrant varioties of flowers and their exceedingly spicy flavor especially from the aromatic sage which blossoms so recklessly upon the deserte; the honev is said to have a delicions taste, much re-

hack into the hive for the patient, robbed bees to fill again. The receiving can holds 1,500 bs, and two men can fill it in one day. A single combisso quickly drained that a bee might leave the hive on a foraging expedition and before she could get her little load of honey, and return, the comb could be emptied and put back into the hive.

A still more tyranical circumvention has been devised to get extra rations of honey from the bees; false combs, wonderful initation of real ones, are made of wax. Apparently the bees know no differenco; at any rate they fill the counterfeit with honey. These artificial combs, carefully handled last ten or twelve years in continual use. However, as same one has said. "The bee business as good



CASCADES IN ETIWANDA CANYON. SAN BERNARDINO COUNTY, CAL

### SAN BERNARDINO COUNTY.

Location - Area - Soil - Climate-Resources, Etc.

Honey Making - Mines and Mining Manufacturing Capabilities.

City of San Bernardina, Riverside and Cultur Described.

(By the Traveling Agent of The Resounces.)

San Bernardino county is bounded on the north by Inyo and the State of Nevada, on the east by the Colorado river, on the south by San Diego county. and on the west by the counties of Kern and Los Angeles. Originally it was part of Los Angeles county and was named from the old mission of Sun a Mexican, who owned the whole they under a grant the le continuated magnificent valley under a grant. He cultivated small portions of family by means of Indian labor and the hills were covered with herds of cattle and bores, this county being well adapted to this indus-try. However, in 1851, it was purchased by two gentlemen, Misrass. Righ and Hauks, who were acting in the interests of a colony of Murmons who were sent not here to catalitish a foot-huld in Califormin, and had back the wandering sheep tale the fold. Relies of these Mormons are to be seen in

40 to 50 miles in length, and 22 miles m ; width. Here are located Riverside and San Bernardino towns, the pricipal onea south of Los Au-

The valley of Sau Bernardino Hea southwest of the center of the county, and northwest of San Bernardino monntain—made beautiful in winter by being snow capped. It is forty miles from the town of San Bernardino. The mountains are covered with spruce, pine, hemlock, cedar, balsam and oak, whose tops seem to pierce the skies. San Bernardino mountain is nearly 12,000 feet in height. Numerous streams flow from the moun-him fringed by heavy growths of willow and syca-more. The Santa Ana river flows the entire length, making this the favored locality by its flue water privileges. In some structure, flowing through the various cauyona, rich placers are to be found, one of which, Lytle creek, has been worked more or

less for years.
Productions are greatly diversified, but the orange. grape, fig and olive bring the surest returns, and it graps, fig and offee firing in safest roots, and was proven long ago, that many parts of the county are well adapted to slik culture. Froits are now so rich and plentiful that several dryers and concribe have been established by different parts of the mainty, with a prumise of here asked business as

sembling that of the famous honey of Hymet-

The yield is quite satisfactory as some years the product is better than others. In a gross estimate of the southern counties the returns last year were given as three million pounds; a statistic that would, no doubt, seem surprising to General Fremont, who, in his report to Congress in 1844, of explorations on the Pacific Cosst, stated that the honey lies could not exist west of the Sierra Nevada moun-

Becoranches are always picturesque, as they are usually in canyous or in wooded foot-hills, and their collection of tiny, bright-colored lilves look their collection of they, bright-colored investions like gay lilliputation cocampments. The lives are usually set in the form of a hollow-square, which makes the care of them much caster. On one side of the dwelling houses one often nedices an observation live with glass sides, which is quite an addition where the liability of hees are to be studied to divantage. The some cases honey-strainers are utiladvantage. In some cases honey strainers are utilized; this is a marvelous invention which would drive the bees wild with dispair if they could underwas proven long ago, that heavy parts of the county are well adapted to slik culture. Fruits are now surich and plentiful that several dryers and consider have been established in different parts of the county, with a prunise of increased business as that passes. The fruits grown in the mountain districts are very line, applies etc, finding a good mar-

business only for a man who has a gift of continu-ance." There are great draw backs to this industry; the irregularity of the flowers being chief! ilowers. Some explain this by one hypothesis, and dowers. Some explain this by one hypothesis, and some by another, and it serves them to quarrel over. Thus infliently does not occur often, and the hees find some flowers for work all the mouths in the year. According to some statistics the highest yield is 180 poinds a live. The time of greatest dauger is when the apricols are ripe and lady-high IV. Bees will eat. apricots are ripe and indy-nigelly. Bees will eat ill they are drunk or stuffed to death. They do not live to get home. Oddly enough the bees cannot pierce the skins of the fruit themselves, but wantill the hully-hug makes a hole for them and then they distinguish.

then they disapate.

No one need think the bee business all play, for it is like everything class in life, and harder than some things. This interesting work is followed with great success by hidles who find it especially fitted to them on account of the light work and of being in the open air. It pays better than house work or school teaching and is a thoroughly independent husiness. This is a removerative occupation to a wouldeful extent, and as the honey is pure and of such good theor and superior quality it is sent to northern markets, where it finds a ready sale at good figures.

Mines and Mining.

There are the intres here which are but little developed, as they are in litigation. They are located in the Temescal mountains, a sour of the Coast Range. The Calico mines are in castern part of the county, in an isolated, uninvit-ing locanon, but are profitable for miners. It has the brighest outlook of any comp since the early times of the Constnek. There are over 15th aitues in operation and paying will. Be my is a list, made out by H. B. Stevens, of some of the mines of the Calico district: Bonanzi King, Moscow, Suc, Ral Cland, Prental, His Marh, Humbing, Oscubentul Group, Turpin, Reed and Sievets, Exchapter, Dragon, Nos. 1 and 2, Robert Garfield, Invinable, Veto, Nonpariel, Snew Bird, Four Aces, Taggert, Bluckfoot Silvereta, Last Chance, Silver Repf. Last Pricture and others. These mines are in

active operation and extracting rich ore.

At Calico there are to be found good accommodatious. At Dagget's, the railroad station, a lourthouse stage meets all trains and emiveys presengers to Calico, a distance of seven miles. Mr. Mechan, the driver, is very careful and abliging. The lare is \$1.00 each way.

There are three resignments. Blusdell & Wursham keep the Globe, located on Calico atreet. They charge fifty cents for single meals, or \$7.00 per Meals are furnished at all hours week for board. of the day and night.

The Cusmopulitan hotel is kept by Wm. N. Turpin. He has a fine hotel, creeted at a cost of \$3,000, having accommodations for 30 people, and, as there is a restaurant in connection with the house, meals are served at all hours.

house, mean are served at an hours.

The Railroad hotel as the second; V. Van Bricson & Co. are proprietors. Linches are put up for pa-sengers, who are always well to ated hire.

J. F. Davis is a druggist and pharmacouns at Calico, and is an excellent business man.

onthis, widely scattered, still remain; thus adding another chapter to the history of the early days of the great gold excitement.

#### Land.

The best land in the county is located between the Sau Bernardino range and Los Angeles. Here the suil is exceedingly fertile, and contains nearly all the agricultural land in the county as well as the towns and villages. Oroberds are increasing in number, us the soil is well adapted to the cultivation of olive, orange, pear, apricot, fig and peach

What is needed by this lower country are more laboring classes, as well as capital, for there is plenty of land which, with irrigation and good cultivation, will biossom and bear equal to any land for his resonrees.

#### Manufacturing

Is another interest which, in time, will be an lanportant enterprise; for the county has superior manufacturing facilities in water power, climate and location. On the desert the yneca furnishes unlimited material for the paper maker, which is tsken no further advantage of than to be reduced to pulp, in small quantities, and shipped away to be insunfactured, and sent back, siterwords, in its perfect state. This should not be while there such vast quantities of paper material that could be utilized were there mills to use them; and there is a large field to which a mill could look for market. There is money in wrapping paper, straw paper, boards and such coarse productions sione, even if newspaper, book and calendered napara were not made: but the manufacture of the finer quainties would pay well, too.

#### Climate

For people suffering from pulmonary troubles characters unsurpassed. The high altitude—

years, are about \$45 per acre, including cost of outtings, etc. The income in older vineyards is about \$80 per acre, while the returns from nn acre of prange trees, in full bearing, are much in excess of these figures.

Riverside is near the Santa Ana river, and is filled with cosy homes and pretty streets, bordered and shaded by priper and evergreen trees; the drive to Arlington, an aristocratic suburb, is especually beautiful on account of Magnolia avouses comprising its triple row of trees and excellent There are, at intervals, magnelia, from which the avenue takes its name, grindelia ro busta, evergreens, pulms, etc. Beautiful humes and orange orchards border the roul for miles, some of them not more than twenty acres, often uni that much, and sometimes many itines that amount. These farms will give handsome incomes, when they once come into bearing, as the hard is especially fertile, which shows itself in gratifying The people all take pade in their delicione truit, and tell one with confidence that their trees are free from insect pests. They have estab lished so close a quarmitine upon ontside fruit and fruit boxes, ondeavoring to destroy the first and fittingating the latter, that they may justly be proud of the result. The Citrus Fair held in Riverside, in 1882, was an excellent example of what a six-year colony has accomplished by unceas-The exhibit was in a pretty little red wood building, and was literally overflowing with fruit of their growing-oranges, lemous, limes, figs, raisins, citron-in raw state and preserved, orange marmalade pottred into halves of orange skins, looking especially tempting and delicions. The second prize for ressure was awarded Mr. Caldwell, who certainly deserved to. The rich coloring and arrangement of fruits, flowers, etc., mide a bright scene never to be forgotten, as well as estab-

Samuel Rolfe is also a dealer in Immber, working on a commission basis. He is located on the cor-ner of Powrth and E streets.

R. Wiggins Is a wide-awake cash grocer. He deals in the cholcost of groceries and provisious, and emleavors to give satisfaction in all cases. His store is on Third street, next door to the Farmer's bunk.

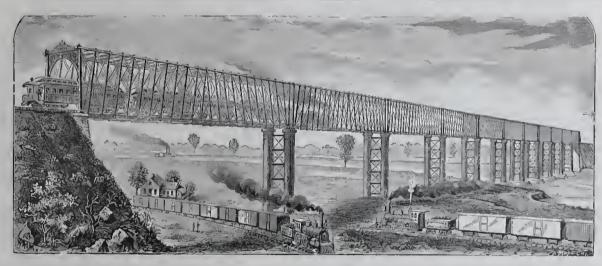
L. Ancker has a fine store building, called the Amelier block, at the current of Third and D streets. He deals extensively in they goods and clothing, lancy goods, hats, boots and shoes. Good mirchants are always atlending strictly to business, and success is the result, as as evidenced by the

Rivifor & Biave are dealers in stoves, hardware tin, copper, sheet from ware, mile, carpenters tools, pumps and all that performs to a first class establishment of the kind. This firm are doing a good basiness on third street.

A. W. Barnum is a dealer in stationery, confitionery, school supplies and newspapers. He receives subscriptions for all leading papers, and is agent for the Resources of California. His store is connected with the post-office in San Bernaullne.

The Earmers' Exchange bank is a reliable and long tried institution, of which the following will known gentlemen are some of its directors; J. H. Stewart Byron Waters, also M. Byrne J. M. Waters etc. Iis capital is \$100,000 and it receives deposite. pays full value for bullion and gold dust, and loanmoney on property.

Starke's Hutel is the best in the town, being on the corner of Thord and C. streets. Everything is first class, it is a new brick, newly and nicely furnished, with teleptione connections with the entire



#### UNION PACIFIC RAILROAD BRIDGE, ACROSS THE MISSOURI, AT OMAHA

#### Other Mines

Silver King is excellent mining property, and, by soms, is considered the best, being further developed. It is tapped by a tunnel 160 feel from the anriace; at this point the vein is four feet wide, assaying from \$200 to \$1,800. Drifts have been run east and west on the vein, and shafts are being sunk from them. Supplies for these mines have to be broughl from San Bernardino, 80 miles distant. Oftentimes mules are packed with small supplies and sent through Cajon Pass.

Mines at Providence mountain are owned by Eastern capitalists. There are volcanic mountains all about and lava beds are commun. Here the Mojave river is utilized in mining, which is an advantage not possessed by some other mines.

The Cajon coal mine is rich in deposits of biinminous coal which, when brought into use, will be invaluable in mill working where wood is acuree.

#### Death Valley.

The history of this spot is well known to most people, as much has already been written and said about it. The location is on a perfectly harren, sandy descri, utterly devoid of water. It is 250 feet below the sea level, and is thought to be the bed of an ancient ocean, as is believed of the Oulorado desert. Many people, coming to this State in early days, lost their lives; but the story of one party seems to be especially sad: There were using young and old men in a train who were eager to reach the gold fiehls, so they separated from their company and, thinhing to make a short cut, wan-dered in this valley in search of water. Manydays of wandering over the hot, dry sand falled to bring them any nearer the pricedess water, and, day after day, the sun glared down pittlessly, making won-decful intrages of groves of trees. In valuating scarched for water, and falling, one by one lied, suffering untold agoutes. The romains of the hones of the party, as well as those of their wagous and

900 feet-gives it especial features of dryness and saluhrive hard to be equaled. Of course, change is apt to benefit people, but the relation of climate climate to pulmonary affections presents its most important aspects; for people, in other parts of the world, suffering from tabercular disease in its ca tablished stages, this county affords a prosp ct of tablished stages, this country accurate that consumption may be developed here as in most other parts of the temperate zone. The ocean breezes brace the system against debility. and often enable it to resist disease, while many neuplo adjourn to the mountains, near by, where charming summer resorts are to be found, thereby mitigating the injurious results which might some times come from the heat of aummer.

#### Churches and Schools.

There are excellent schools in the county; there are some 40 districts. The teachers are under the supervision of John A. Rosseau, a thorough scholar. The teachers are of first quality, many graduates of our noted State Normal School bo ing employed.

Ohurches are well represented; they and the school-house go hand-in-band. The churches are quite well patronized, thus keeping good the tone of society, which is constantly improving. There are many settlers from the East, and in Rivershie are many sections from the Lass, and the own one would thinh binself among his own friends, as there are so many specimens of the finest class of Yankees, who find the halmy winters of San Bernardino county much to be preferred to those of the Atlantie Coast.

### Risserable.

Land can be bought at prices varying in accordance with the amount of cultivation in this delightful locality. The sales in January and February, the full state of the sales in January and February, the full state of the sale land is in demand all over the county.

The cost of a vineyard, during the first three and Estrect.

lishing for the young settlement a reputation for energy, enterprise and public spirit.

The St. George lintel is a first-class house, it said

furniture being new and neat. moderate, and tourists, etc., would do well to is excellent and embraces all the market affords John Boyd is the laudiord.

The Glenwood is a delightful bome for the weary traveler, and Miss Miller is especially attentive to their guests, who always carry away, pleas int memories of her kindness and capabilities.

To those contemplating a trip to Arrow Head, a clightful retreat in the mountains, where but aprings and extensive views are the order of the day, one would do well to patronize the City livery stable for good horses and buggies. There one will find Mr. Dickson, who is ready to suit his patrons.

#### San Bernneillun

Is reached by a stage running from Colton to the town, a distance of three miles. The town is pleas antly located, and supplies the mines with provisjone.

Mr. S. C. Kendall has specimens from every mine in the county. He is a lively wall enterpris-ing real estate and mining agent. A. D. Boven is another dealer in bunls and wines,

and well deserves putrounge, as he is the right one in the right place.

W. S. La Praix is the owner of som mills in Little Bear valley, the mills having a capacity of 20,000 feet per day. The supply is pine, hemlock, red and white codar, and seems unituited. The red and wine codar, and seems initialized. The gently out of the mills on the mountain is about 6,000,000 feet, and is all consumed in this county, being sold for \$22.50 to \$47 per thousand feet, which is \$10 per thousand less than redwood line. her of the same grade can be bought for. Mr. La Praix's affice and yard are at the corner of Fourth

county, has a good reading room with full files of пев чрацитч,

The Emopeum hotel is also a new brick, nawly refitted having recently changed hands. All stage pass the door, and call or leave passengers. H. L. Martin is the proprietor. There is a fine billiard room and telephous connections. Meals 25 cents

Cotton

Is where people bound for Riverside and San Besnardino leave the cars. It is not a pretty town, as it is located on a sandy plan, where the wind makes it fly occusionally to one's great disadvantage. It contains 600 or 700 inhabitants and is growing steadily, as there is good land surroundig it. There is a five new hotel here where the traveler will find excellent meals and a good laudford. Meals are reasonable and of the best quality. This hotel is situated opposite the depot convenient for passengers, and others. Mr. Hodges, the proprietor, was formerly of the Lick House, Sin Francisco, and of the Metropolitan, New York city, and he shows that

ho understands hotel keeping.
Win. G. Hughes is a cash dealer in groceries and provisions, and is doing a good business, that is stendily improving. In the new brick block in Colton will be found a splendal store comprising marry everything a honsowice med, as groceies. crockery and glasswire, hats, caps, finey goods and dry goods. Here Mr. Frank Emerson gives the best value for the least money, which all know is what is wanted when buying goods.

The class of men and woman coming to this section of California is something to boost of and angure well for the function of the State, which is yet only in its infanoy,

#### GOOD VIELD:

It is said that in Vallejn township, Somma county, the larmors have averaged 30 bushels of wheat to the sere, a larger yield then was naticipated.

#### SANTA CRUZ COUNTY.

Location - Preductions - Soil - Advantagos. Etc.

Santa Cruz City, Big Trees and Benuilfol Sernery Described.

[By the Traveling Agent of The RESOURCES.]

Of all the counties in this wonderful State Santa Cruz is one of the most desirable in nearly all re-Tourists and health-seckers are made happy, for in the terests of the mountains are spots which are the items of loveliness and exbilaration and where tisting, tunning and betanizing abound.

Three localities are reached by means of the narrow-guage ra frond, or South Pac tic Radroad; by broad guage, or Southern Pacific Railroad, and by steamer. The first is preferred, by some, as it carries travelers through some of the loveliest scenery imaginable. To be in a desirable position is a coach, enabling one to obtain a panerance view of gigantic redwoods, pretty little monutain homes, of stroams proline in trout, gives a fairly accurate idea of what may be in store for those seck for pleasure.

Felton is on the line of the narrow-guage cutroad, and has a comfortable hotel and many points of interest in the surrounding section. Next is Big Tree station, where hotel, dancing stand, ru mantic walks and flue views of San Lorenzo river are to be found. The botel is in charge of a gentle-

tation to live according to the flesh. The climate is certainly not favorable to asceticism. There is a breadth and intensity of light and color here; the flowers blossom recklessly alt the year round. high, wludy plane, which sweeps across from the first low range of hills to the ragged brink of the cliffs, has been compared to the English downs, The lines of the landscape are broad and simple. The terraces of the town, the first low range of lduffs, the dark, smoky, blue mountains bryond, rtss and gradually step back with stretches of pinn between, like the circling seats of un ampitheatre, from the broad bright arena of the bay-the bay of Monterey-10 miles wile, into whose barriers the ocean pours its winter tides, lashed by the mild " sonth-rasters."

The earliest voyagers along this coast seemed to have noted the mountains, especially from the tact of their being heavily timbered. Cabrillo lirst apeaks of these "wooded mountains," and Viscayno exploring the coast more carefully in the search of hurbors" anchored in this noble bay, and gave it the name of this patron saint. Viscayno in his good report of the country had spoken of an infinite number of very large pines, "straight, and yards; likewiso cake, mnote, ht for masts thorus, firs, willows and poplars; large, clear lakes and fine pastures and arable lands." Father Crespi prophesies with a keen temporal eye: "This place is not only fit for a town but for a city, without wauting any of the things necessary; with good laud, water, pasturage, wood and timber, within feel perfectly at home. The accommodations are | its natural bridge and numerous hollow complete tor 70 guests; and in the pleasant parlor and sitting rooms games of all kinds are at hand. Mrs. Lewis is one of the survivors of the Donner party, being the Mies Pattie Reed who is mentioned as having endured so much suffering at Donner lake in the winter of 1846-7.

The Douglas hense is the only hotel on the beach that is open the year round. It has recently been thoroughly renovated and newly furnished. bouse is to be found on the hill overlooking the bay, where a full view of brach and bathers is to be This is an ospecially desirable bome, as the jurcir is large and each room bus a fine on th the heautiful bay and the picturesque blue hills of the surrounding vicinity.

The Witking house is one of the best hotels in Santa Cruz, sumated as it is in the center of the town, on Pacific avenue. Mr. P. V. Wilkins, the proprietor, is solicitous for the comfort of guests, and he is noted for his kindness. The table is excellent and attendants of the best, as a short visit will surply testify. Mr. Wilkins has several fine cows, which supply the table with righ creup, and milk. In connection with the hotel is a large assembly room, containing prane and billiard tables for the benefit of the guests. Besides this the hotel parler is on the first floor, and is well highted anil warmed.

Bliss' Ocean Villa is beautifully located on the east side of town, at the month of San Lorenzo river and overlooking the town. This is a desiraction of the sea. Another natural bridge, more isolated, if possible, is located four miles from Santa Cruz. Then there is Apter and Sequet for other drives well worth taking, as well as numerous mountain and coast time.

Lauret.

The land is especially tertile and well adapted to fruit and vegetable raising. No irrigation being necessary, these are remunerative. Hillside farms are quite productive, as the following reports, tale it from official returns for the fiscal year endting in 1880, with abow; wheat, 211,592 bushels; harley, 90,917 hushels; oats, 10,724 bushels; tye, 63 bushels; corn, 19 481 tushels; buch wheat, 273 bushels; beaus, 1,069 bushels; polatoes, 3,127 tore; hay, the force of the first state of gallous. [The report for 1882 has not been issue

The number of snumer visitors who trequent this scotion enable the owners of small, well tilted farms to dispose of their produce in honce markets. This variety of productions secures better returns No man abouid expect to make a farm productive without labor and skill, here, any more than el-c-where; but where nature has brought together an many advantages, little remains to be done beyond the ordinary labor of good cultivation. Dairying is an interest especially adapted to this county and most excellent butter and cheese are made bete



SCENE ON SAN LORENZO RIVER, SANTA CRUZ COUNTY, CAL.

man who does all in his power to enfiance the pleasure and comfort of his guests. The trees are a wonderful but not a secondary consideration, as the remains of General Fremunt's old tan vats were cut from a large redwood tree, are yet to be seen, although fast falling into decay. There are swings for the enjoyment of the happy-hearted children who congregate in this delightful apot. picturesque foot-bridge spans the San Lerenzo river, just back of the tan vats, and one crossing it may look into the pellucid depths of water to the graveled bottom. In driving from Santa Cruz city to this point the river is forded, thus diversifying the trip by encountering so lovely a stream.

Many picnic parties meet at these Big Trees, and
enjoyment is the order of the day. There are tables enjoyment is the order of the day. There are tables which may be utilized by picnicers and for ice cream and through the control of the contr and ismunade stands. From Big Tree station to Sants Cruz is a short ride, but filled with most exquisite sights of monutain and valley beauties wideh, on the narrow guage road, la musurpassed as scenn after scene of phalanxes of magnificent forest trees stretch out before the vision. snug tittle valley is seen, which contains a powder manufactury and employed homes. On a high hill, everlooking those buildings, is the home of the superintendent. This is reached by a winding read, and a trip over it is a delightful one. Sants Cruz.

In choosing this site for their mission the old

padres had, no death, a comfortable belief that the best was none too good for thom; or they may have wished to enhance the virtues of abstinence and prayer by surrounding thomselves with every temp-

react, in abundance and close to Monterey Bay." So here they founded the mission of Santa Cruz Its rulus are now cov They built the old church. ered and reofed over for protection from epulcher. weather by a dreary board as But it was not only a question of sonls, for they planted trees -1,022 (ruit trees-and many vinca. Their flocks and herds increased and multiplied; they taught the Indians how to make adohes and the use of such rude tools as were then known. Of the bells belonging to the mission two remain in use, and one large one lies broken and ailent in the priest's

The city, in 1882, contained a population of 5,000, and is one of the largest cities in the county. The beach, of beantiful white sand, is well patronized by hathers, and the water is of an exhibitrating temperature. There are numerous bath-louses furnishing good accommodations in the way of bathing costumes and dressing rooms. Liebraudt's bath bouse, on the beach, bas the finest surf buthing on the coast, also het salt-water battis. tendants are good, and their bathing suits are said There is a fine bar connected, con thining good liquors, for those who desire to tadulgo.

On the beach is a delightful place for travelers who

want a breath of the sea. It is called Scaside Home and is kept by Mrs. Frank Lewis. This home-like and is kept by Mrs. Frank Lewis. This noncelline and truly pleasing little bones is located on the bluff overlooking the beach and bathing grounds. One who loves in listen to the breakers may be am-ply gratified here. Mrs. Lewis is a pleasant land-lady and understands the art of making her guests

ablo homo for the summer, as Mr. Bliss has several cosy cottages to let, besides rooms in the main part of the house. There is a large dinning room, epsrated from the main building, where most de lectable meals are daintily served, as overything tho market affords is to be found here. are handsomely laid out, a pretty little fountain and besin, containing gold fish, being found in the center of the yard, near a large wooden swing that is a delight to children. may enjoy a grand view of the roaring surf, and by walking to the edge of the grounds, bordering on the river, facilities for beating, bathing and fishing are discovered.

The little city is well supplied with fine stores, among which are Frank Ely's large stock of fur-niture, bedding, etc.

H. Randell keeps a large supply of boots and He has he n established since 1864, and has the finest store of the kind in Santa Cruz.

Wm. Ely has a flour and feed depot, and has been established since 1879.

Sumuel Drenuanis a prominent real estate and insurance agent. Olive & Foster are wholesale and rotail dealers

In sawed and split lumber of every description.

As there are delightful drives in all directions from Santa Cruz, one may have recourse to livery

stables in order to so enjoy the drives. Bonner, fine suddlo horses and plautons are to be

Moore's beach, about two and a half miles, la found to be especially (noteworthy, on account of

Baldwin's dairy is one quite prominent, as it is a mount of neatness and thrift. It is located some distance from Santa Cruz, on the coast road, the cows being pastured on the many surrounding hills.

Having fine roads, are well timbered, suitable for cubinot and furniture manufacture. Redwood, tan bark, and mountain laurel or pepper tree, whose leaves bark.and monntaint and of people and of the most valuable woods. Many finely grained woods for valuable woods found. The land on the foot-wile would make and is being utilized for valuable. vineyards and orchards, where time fruits can be raised without irrigation.

Gengraphy, Etc.,
The western and southwestern sides of Santa
Cruz front on the bay of Monterey and Carmelo which opens its commerce to the world. It has a sufficiency of good shipping ports. Little streams leave tew of its more fertile portions unprovided with necessible outlets to the ses during periods of the year. Its natural advantages allow railroada to be constructed with comparatively easy grades.

Low mess lands border the coast and stretch back to the toot-bills, becoming tilly as the timber land is reactivil.

Pujaro Vuttey.

Ia rich in agriculturat promise, about twelve mites tarien in agricultural productions by seven in width, and possesses soil of unexampled rioliness. Twenty years, or more, have not oxbansted its fertitity, nor lessened its productiveso deep and rich la the soil. As if to further add to he desirebloness a railroad rings iterough it, thus affording swift markets and city prices for the perishable products of small farms. People are ot slore to avail themselves of the adeantages thus Many smaller valleys rich in agricultural promise are to be found in this county. There are besides the agricultural interests, some manufacturies. There are fifteen steam and two waterpun er saw-mills, which turned out 4,530,000 feet of lumber, and 2,100,000 shingles last year.

The San Lorenza Flume has a capacity for transporting 60,000,000 feet of lumber per season. It numbers the upper San Lorenzo mills and "tie" camps with Felton and the railroads which carries the lumber to the coast.

There are five lime kilus, which manufacture a superior quality of lime, and employ a large force

The Santa Cruz lightnouse, located on a desolate point of land, is scortly a clait from strangers The people in charge are willing to show the building and lamp to visitors, and Miss Hicok's intuera logical, marine and curiosity cabluets are full of peculiar and wonderful specimens, which she has ricered by exchange and otherwise from all parts of the world.

#### HORFICULTURE AT HEALDSBURG.

The Russian River Flog, in a late issue prothe following interesting facts in relation to fruit raising in the vicinity of Healdsburg:

W. N. Gladden purhased in 1872 some fifty-five acres of land one mile south of town and removed to it in April of that year. The piece consisted of thirty fire acres of good land; ten acres light sandy soil, and ten acres of gravel. At time of purchase there was on the place a two and a half acro orchard, five years old, of various fruits. In 1874 Mr. Glidden planted five bundred peach trees on a light gravelly soil, also two acres of grapes, as au experiment on that kind of land. The result was such as to warrant the planting of all and in these fruits. This land in bay or grain will not produce \$5 per acre, but in peaches it has yielded \$250, and in grapes \$125 per acre. Mr. Gladden has now his entire place, exept four acres, planted in ordinards and vineyards. Pilteen acres of orchard and two acres of vineyard are in full bearing. List year the gross receipts from the farm was nearly \$1,000. For his grapes be realizes the highest market price, they being the carliest grown in this vicinity, and the quality good, He has never had to use sulphur to preveal mildew, and the vines produce bountilal crops and do not make so much wood as on rich, heavy land. He says that along likesiak river, hundreds of acres of such land, now considered scotthless, can he made profitable by planting in vines. The rai sin grape, (Muscal of Alexandria) grown on such land makea as fine a raisin as can be tound in the market. This year the fruit crop being light, his place did not yield as much cash as last year, but be has a nursery of time young trees that will do much lowerd making up the deficiency. With orchards and vineyards in full bearing, at present prices the gross proceeds of his place would be \$12,000 to \$15,000 per year. His leading fruits are peachea, plums and prines, yel he has all other kinds raised in the country.

#### RYS RAY .. TWO TONS TO THE ACRE WITHOUT IRRIGATION.

We believe that this grain is one of the most promising crops that has been raised in this valley. Thumas West, who lives three miles from Loyalton, close to the base of the minuutsins, raised this year on red gravel land that did not even grace aagebrush, the tons of tye bay to the acre without prigacion. He says: "It rye will do this on this barren, unpromising land, what will it do oo good haid and in localities where it can have an even chance with other crops?" The success of those who last Spring sowed tye, opens a vast area for profitable cultivation that has been beretofore considered worthless. There is an abundance of good pasturage all around the valley on the hills, that will be ntilized by dairymen, if they can raise rye hay enough on the dry lands to Winter their cows. and the experiments of this year accm to provo almost beyond a doubt that this can be done. bops to see a largely increased acreage of this grain Kext season. The hay is said to be of a superior quality.—Sorru Volley Leader.

#### WHAT THE STATE NEEDS.

California is an empire of itself. She has a territory larger than two thirds of the kingdoms whi are ruled by erowiced heads across the sea, and her surces are greater. California lacks only in popdiallog and the development of her maple resources, Her chiefest want at present is mininfindures. I have agriculture as the foundation upon which build our commercial and industrial superstructure; we need manufactures to help upbuild, to round out, to make symmetrical the great ediffee that is to denote mir fiture material greatness. It is the olidarity of its industries that promotes the pris erity of a State in the largest degree. As it is, her nonnifactures; but what she is to-day in this regard she is destined to colipse hefore many years.

- Los Angeles Mirror.

#### VOLO COUNTY

S. M. Norton furnishes the Call with the follow ing concerning the products, industries and growth of one of the oldest and most progressive counties

As one of the oldest grain-growing counties in the State, Yolo county justly claims a place in the foremost rank. During its early settlement, stock raising formed the almost exclusive occupation its prople, but as sonn as the bertility of the soil became known, the herds and flocks were dricen to the remote and antillable localities, to give place to the plough and resper. The first farming in the county was done by John Gordon, on Caelle Creek, The soil was found to be very productice, violding 50 bushels per acre by very little cultivaturn. At this time oals were a spontaneous production of the soil, and pioneer settlers are very thusiastic in telling of the luxitment growth tained by this cereid-it frequently growing as high as a horse's back. The lack of transportation faciltlies, for many years confined agriculture to only the most fertile lands, a yield less than 40 bushels to the acre being deemed unprofitable, and the writer can remember, no further back than ichen 75 busbele of schoat per acre was no uncommore yield. It was found that entitivation improved these lands, and to day we find them very produc-tive, commanding prices from \$30 to \$50 per acre The fauthall lands of Yolo, which for many years were deemed only suitable for stock ranges, are occupied by hundreds of pleasant homes, and yield from twenty to forty bushels of wheat per The same may be said of the immense lev intervening them and the Coast Range muchturns on the west. The soil of this valley is adobe but improces by enlivation.

The richer land of Yolo, that comprising the ceutral part of the county, is beyond doubt the heat to be found in the Sacramento valley. Besides its grain-producing qualities, it is found to be adapt-able to all kinds of semi-tropical fruits, and the grape it produces has been pronounced, by a board of inspectors at Paris, to be superior to any proof inspectors at Picris, to duction of France. This has led many to turn their attention to grape-growing, and it promises to become a cory active industry in the near fature. The principid vineyardists of Yolo are R. B. Blow era, G. G. Briggs, N. Wycoff, D. C. Rumsey, J. Y. Dillon and S. P. Pond. These men have been cory successful in their enterprises, having secured a European market for their raisins, for which they receive good prices. To advance the industry, some of the real estate dealers of Yolo county have in augnrated colonization scheines, for the purpose of dividing up some of the larger tracts of selling them off in small tracts as desired by the purchaser. Chief among these are the tract, under the supervision of G. D. Fiske & Co. and the Wilcox & Farris tract under the control Coward & Clanton. Both these tracts are situited on Cache creek. The sod is a rich, sandy lean unil is beyond doubt of the most fertile quality, and peculiarly adapted to fruit and vines. These concpeculiarly adapted to fruit and vines. ranies have already disposed of singlar truets in like manner, and are doing muck to develop the tesources of the county.

The irrigation facilities of Yolo are all that could he desired. With the Sacramento river to the north and east, Putsh creek bounding it on the north, and Cache creek, a living stream, passing through the center, there is hut a very small purtion of the county that can not be made convenient irrigation. As one result of this advantage, falfa fields are made to produce as many is five craps of bay per year, besides furnishing feel for ap incredible amount of stock. Lands sown to clover sell at trom \$200 to \$300 per acre

On the east and northeast horders of Yolo county there is a strip of hind, embracing several limited thousand acrea, which is almost annually flowed from the Sacranoonlo river. es have been inaugurated to reclaim portlins of this land, but note have so far proved more than a partial success. Incheese sums of money have been expended in building lecees to withstand the waters, but in severe winters these embank ments have failed to protect the lambs. In moder ate winters, however, the floods have been success fully combated, and the lands have yielded large crops. Chief among the men who have staked their fortunes to reclaim these lands are Hous. Charles F. Reed and A. H. Rose, who have spent Chief among the men who have staked several years in the work. Although losing about one crop in three, they have been simply compensated for their elforts, and express confidence many thousand acres of this land will eventually be reclaimed, thus adding a large territory to the farming district of Yolo county. The prospects of farming district of Yolo county. The prospects of this acquisition are enhanced by one Sir John Raye, a wealthy Englishman, representing a symbolic iciti a calutal of seceral million dollars, who has recently purchased \$9,000 acres of these lands. proposes to reclaim them it whatever cost, and has at the present writing, October, 1883, a very large force at teams at ourk building an lumenso levee around his possessions. It is estimated that the ontemptated work will cost over half a suffice The crups on these lands this your not illaturbed by ovierlice, and produced a yield of

ing is still carried on quite extensively in districts orbere agricultore is impractionable. The Const The Const. where agriculture is impracticable. The Count Range footbills are devoted exclusively to this industry, and the occupation is still profitable. Hop eulture his proved a good paying business on the river lands, the crops often yielding to the proer as high as \$300 per acre.

Experiments in berry enthire have demonstrated that dinost any variety inci be grown here successfully. J. E. Chard of Windland has two neros in strawberry cines, trom which he reaped an im-mense profit the first season. The herries were very large and of a superior quality. Cotton and slik culture has been successfully experimental with, and might be made a profitable industry,

The railroad and other transportation facilities muy be mentioned among the many adeautinges of Yolo county. The northern branch of the Central Pacific passes through the center of the county, raunting three traigs per day each way, connecting directly with San Francisco and Tehama, while the Clear lake and Vaca valley road terminales at Madison, a toich situated in the western part of the county, lwelve nuies west of Woodland. The exlension of this road to Lako county is a scheme in contemplation. The Sacramenti river, which forms the eastern boundary of the county, also affords shipping advantages.

Woodland, the principal town and counte seat of Yolo county, is an incorporated lown of 3,500 in-habitants, having all the essential requisition of a Its rapid growth within the past fee years has been most wonderful, while the stately w buildings and costly, elegant residences testify in unmistakable terms to its prosperity. It not has seven hotels, three of which equal in size and architecture any holel in the State ontside of San Francisco; Iwo banks, one having been established the present year; two complete and distinct systems of water ivorks, gus works, fire department, winery, brewery, flour mill, two eight forthries, one shoe factory, machine shop and foundry, ice works, soda works, eight dry goods and general merchandise houses, six groceries, four halls, two daily and three weekly movspapers and other ostal-lishments in keeping with a toun of its size. What nature has failed to do to nake Woodland a benutiful place has been more than effected by the chergy and enterprise of the unhabitants of the bown. It arlificial stone pavements, orde level streets and cosy residences are not surpassed by any town in the State. On every side may be noted evidences of wealth and the rivaling pride of the citizens Woodland boasts of its ducationed advantages, and ivell she may. Besides He-perian college, icivellregulated institution of learning, it has two large schoolhouses, graded schools, and the people hav just voted a \$10,000 tax for the erection of still another schoolhouse, to meel an imperalice de mand, canacil be the rapidly-increasing population. The Catholics have commenced running funds for the establishment of a convent in the place, and the success they are meeling with Insures its completion at an early day. A beautiful plot of land adjacent to the lown has been purchased for the site and several thousand dollars have been raised for building the school and other requisites. There are six churches in the town, representing as many denominations, and agother in course of construc-The town authorities have granted a fronchise for a street railway, but it will probably be some time before it is constructed.

Woodland is steadily incprocing, and every improvement is made with a clew to permanence ested in one of the finest farming sections in the Stide, aid having it vist amount of wealth in Ha is maintested for its future, population is diade up to a great extent of wealthy farmers who, baving retired from the active par suits of forming, have located in the lown to make it their peramoral kome and give their children a thorough education. They invest their gromy in towa outerprises and use their energies to build up wal profest the best interests of the place. The whole people are unde aicake and never refuse to encourage any neic outerprise that presents itself.

There has been a steady mercase in the price of hand in this county, but of late years the mercase has been more notably in the vicinity of Woodhind. where it now solls for as quich as \$200 per acre When sown to alfalfa it concounds a much greater price. Whodhaid then property is also shadily on the increase, but there are still splendid indices ments, both in the town and in the country, red calule dealers report an active market. If has not keen a drought here for lice years, and it is quite probable that it there should be one snow it quito probable that it there should would serve to revive the question of irrigation and cause some of the contemplated systems to be pros cented at an earlier day than otherwise,

The formers of Yolo county are, as a chose n happy and prosperous people The unionty unselves in comfortidde houses, surrounded by all modern conceptences and have added attractions which go to imbeate that they are determined to make their their permanent abodes. The showardy mode of combaform is about discarded for systematic and ornot disturbed by overflice, and produced a yield of sightly outbuildings have been replaced by neat, Although stock-raising has been practically sup-

planted by farming in this country, yet sheep rais- eyears an air of advanced civilization, comfort and prosperity. The well-to-do farmer takes as much prible he riding out in his elegant carriage as done the town nahob. He is no longer a shive to the play, but breathes the air of micpendence with the thenlty of a king.

> Pine stock-breeding has received an imputus here of late years, and the result has been most grants. ing. Hursemen pronounce some of the stock the these in the State. Yole has produced a number of mechoraes that have neade noted records, and her displays at the State Fair are generally crede.

> Generally speaking. Yolo has five roads theorem. out the county; although many of them have cost large soms of money, they have been made sub stanlist.

The climate of Yido county, though wirm during the summer season, is bealthful. idso a grafitying feature.

As an evidence of the rapid advancement of Yolo as a evidence of the lapid advancement of 100 county, it may be stated that a well-known iract of land, known as the Wilcox & Farris Iract, consisting of 2,117 seres, was fifteen years ago offered for sale for \$12,500 hut no purchaser could be found, us, at that time, the price was considered his high The same tract four months ago one sold for \$211 700, or \$100 per acre, the purchasers boying the for purposes of speculation, It conseven later then fifteen cears ago when settlers began to pre-empt the plain lambs of Yolo, which land now sells rendily at from \$20 to \$40 per acre.

#### GRAPE AND GRAIN CULTURE.

It is useless to talk about grain farming as compared with the grape luciness for money making Yolo county is exactly adapted for the latter, either specessful experience. It is said by practical men that it does not pay to raise icheat ceptionally good years) on land worth \$100 and up wards an acre. And not only so, but the land be comes poorer the longer it is cropped in this way. With grapes the case is different. long, and go down deep into the almost billomless soil, while the vines draw much more largely from the atmosphere them do any head of cereals. In fact, the only drawback we see to grape culture is that it takes three cours for them to become profits-ble. But this is all unde up in the fact that when a vineyard of good quality grapes is five years old it is neorth four or five hambled dollars per acre. With good culture 200 to 240 hoxes of raisins have heen pendo here to the acre, and average good raione are worth from \$2 to \$2.50 at whole-ale rates They do not vary in price as much as many other articles, as they have averaged these prices during the past five years. Taking the lowest figures of ulity and price stated above, and ne have \$400 worth of rusins to the aere. A great deal more than that has been realized, from choice wine; yes, more than five times as much; but we do not wish lo give fancy figures, only lo state plain facts that are within the range of the capabilities of every to till the soil. man with intelligence enough Grapes vield from ten to engbteen tons an acre. Table grapes are worth \$40 per ton, and wine grapes \$20 to \$30 per ton. The third year a vine-yord will pay all expenses of cultivation, and after that a greater profit the older the cines becowith proper care and tavoring circumstances. Besides, there is do danger of nunversupply. It is easy lo see, then, lbst the grape undestry is soon is herome the leading one in this county. Its soil, climate, irrigition and chipping lacilities-everylbing seems to favor it. Where one famil oun do well al group raising at least ten can make money troor grapes and fruits of other kinds. Thus our population will be largely increased, and that of course will make it batter for all classes of business. We have no doubt the population and county will double within the next ten years because of its already demonstrated copabilities in the direction above indicated. - Yolo

### COST OF HOP CREATURE

Several Impairies have been received at this office shout the expense of planting a hop field. order to supply this information we have consulted everal hop raisers. Through information thus gathered, we are able to present an itemized exhibit of the cost of planting, enlined and the cost of gaining an acre of heps. Ground with and the cost of ing an acre of heps. Greated retitional clearing are not inclinited in the estimate

Plowing and harnowing	S 9 90
Boots, 1,600 at our rend earle	319-411
Poles, 870 of 2 Spreads pach	21C 2H
Bitting pides	1 00
Twins and tivining	Ps, DCI
Cultivating	15 100
Troiding, a rotabilions bisk	0.156
Stecoring and stripping, twice	3.00
Total	\$75.00

Added to the above is the cost of packing, carries indeing, etc. Estimating the first erop of an acre of new hops at 600 pounds of enord, packing would cost \$24, ouring mot loading \$15, and there would still remain in onthry for shipping, commissi manrance, etc. The radby for an acre is \$114, and the result is 600 pounds of merchantable hops. -Uklark Person.

# THE RESOURCES OF CALIFORNIA

### SEQUOIA GIGANTEA.

W. A. Sanders, a prominent eithen of Sanders, Fresno county, Inruishes the Rural Californian with the following interesting communication;

The California "Big Tries" are found most abundantly just in sight of my phier, eastiewed on the Sierras, at 5,000 to 7,000 feet attitude. Here are lens of thousands of them, from the scelling of a few inches height to the putriarch of the forest of a hundred fact girth and over 300 feet in height, Brewer in a communication to Sir Wm. Hooker, years ago, speaking of this collection of Sequents says: "I found trees larger than they ur further north, in the Calaveras and Maripusa groves. The largest tree I sur was 106 feet in cur-cumference at four feet from the ground, It had lost same but-

tresses by fire; it must have been at least 115 or 120 feet when enlire; it is 276 feet high," Another item too good to omit is Bayard Taylor's account of the felling of one of the Calaveras grove: After a steady labor of six recks the thing was done, but the tree stood numoved; so straight and symmetrical was its growth, so immonse its weight and so broad its base, that it seemed unconscious of its own aunihilation, tossing ite onter branches derisively against the monutain winds that strove to over-throw it. A neighboring pine of giant size was then selected and felled in such a way as to fall with full force against it. The top shook a little but the shaft stood as before; finally the spoilers succeeded in driving wedges into the cut; gradually and with great labor one side of the tree was lifted; the line of equilibrium was driven nearer and nearer to the edge of the base; the mighty mass poised for a moment, and then with a great rusbiog sigh in all its boughs, thundered down. The forest was ground to dust beneath it, and for a mile ground the earth shook with the concussion." This tree was cut down by means of long angers worked by horse-prive By counting the aunular rings it was ascertained to be over 1 300 years old. The leaves are only one-half of an inch long, lance shaped, pointed, closely ap-pressed, of pale green color. Cones are ovale-obloug, two to three inches in length, composed of Iwenty-five to thirty scales; seeds closely resemble parantp seeds three to eight to each scale. 'The wood so closely resembles the common redwood (sequoia sempervirens), as to be scarcely distinguishable. bark is climamon-colored, making them conspicuous among the darker-bued firs and pines, among which they are always found. The name Sequois mas bestowed in honor of the Cherokee chief Sequah-yah, the in-ventor of the Cherokee alphabet, than which, no more pertect al phabet has probably ever existed.

A letter, just received, hes before me. 'Tis written in a style of chirography that shows not an American production.
The from a leading European seedsman. He says that when I shall again visit Europe, I can travel through young groves ag-gregating millions of trees, largely Sequeins, grown from seeds that I have shipped thither. During the same period how many of our California forest trees have been started in our own conutry? We panse for reply how many, and where are they? We don't know. These Sequoiss will grow aix feet per year under

What more honorable, favorable conditions. invocable conditions. What more honorable, enduring, or useful monatural can a man-erect to his memory to keep his acts, if not his name in remembrance for a thousand years,-than to plant a grove, a shelter belt, or adorn a readside with some of these long lived, beautiful and valuable trees? They do not transplant well. The safest way in the hands of a novice is to ent a lot of green, thin shelled tops of novice is to cut a lot of green, thin-shelled tops of baubin steins (you should all have bamboos grow-big) into lengths of about slaben luches; plants in the plants for the joints; fill them with dirt; plants is quota seed in the top of each one. Sat the battom of your hamboos his water till your trues begin to grow. Now your young trues happe to transplant without injury or estarding o.

Dur county is credited with 2,225 farms; 1983/70 gerss if improved lambs; farms, fences and buildings of the plants of \$1,378,368. The cost of the amount of \$1,478,368. The cost of the amount of \$1,478,368. The cost of shalling and repairing fences in 1879 was \$129,-611. Fertilizes to the amount of \$12,801 were purshable transplant without injury or estarding o.

growth. You can hamile them as easily and safely | sold, consumed or on hand in 1876 was \$2,740,461. has groupe cuitings. Use only the tops of given bain-bou atoms, to insure their being thin and tender enough that the growing tree will split, and absorb them by its growth.

#### SONOMA COUNTY,

The entire population of Sonoma county, as glenned from the census of 1880, was 25,929. Of this number 19,883 are nutive Americans, 10,740 being born in the State of California, 1,198 in New York, 1.196 in Missourt, 394 in Massachusetts, 732 in Ohio, 710 in Illinois and 5,091 in other States and Territories; 6,093 are foreign born, 678 hailing from the various provinces of British America, 513 from

The principal vegetable productions are given as follows: harley, 256,007 hashels; buckwheat, 152 bushels; corn, 154,829 hashels; oats, 63,685 bushels; ryo, 4,058 busbels; whent, 742,123 bushels; value of orehard products, \$168,767; tons of hay, 17.121; psinude of bops, 66,250; hushels of potatees, 682, 028; sweet potatees, 320 bushels; pounds of tobacco,

Live stock: number of horses in the county, 10,-710; mules, 393; work oxen, 125; milk cows, 18,836; other cattle, 12,176; sbeep, 113,078; swinn, 12,788. Sonoma is credited with having more horses than any other county in the Stale except San Josquin

velous, surpassing even the wildest conjectures, the full extent of which we will endeavor to present our readors at some future date,—Sonoma Index.

CALIFORNIA FRUIT ABROAD.

The fame of California fruits, the adaptability of
the soil and climate to their culture, the demand for them, fresh and preserved, both locally and in for them. Irish and preserved, both locally and in foreign markets, and the increasingly renumerative prices which are the frint-grovers' return for in-vested capital and lubor, are having the effect of drawing the attention of the California press more clusely to this ludustry, and metropolitan and local classicy to this indingry, and instruportion and ideal journals engage heartily in what promises to be California's grandest enterprise. The Eastern press repeats and favorably comments apon the statements and facts pro-

duced here, and the result is a surely widening market. A writer ma late number of the San Francisco Commercial Herald says:

The estimated total product of 1882 is, California drled apples, 1,000,000 pounds; dried peaches, 750,000 pounds; dried plnms, 350,000 pounds; dried pears, 100, 000 pounds; dried apricots, 200, 000 ponuds; dried prunes, 500,-000 ponuds; almonds, 200,000 ponuds; walnuts, 600,000 pounds; hopey, extracted, 700,000 pounds; housey comb, 446,000 pounds. The greater portion of all this product has already been marketd in the Eastern and Western States, irbers the dried fruits, unts, honey, etc., of Culifornia are now being received with great favor, and from the constantly increasing demand it would see that there is practically no limit to the coming demand, as only a very small portion of the conming masses of the United States as yet have never seen or nasted California fruits.

Lasted California fruits.

Lew route now open to the great

Bouth, a new field is now opencel

coods, and in a few for these goods, and in a few years the fruits of California will be as well known in the markets of Galveston and New Orleans as they are to-day in Ohicago, St Louis and other Western States, -Nana Register

#### HEET ROOT SUGAR

A writer in the Bulletin of this city gives the following facts and figures regarding this industry: Edward F. Dyer, son of E. H.

Dyer, Superintendent of Standard Sugar Company at Al-varado, Alameda county, Califorma, has prepared a paper on the cultivation of the beet and the process of the manufacturing of beet root sugar, for which be has received \$1,200 from the Agricul-tural Department it Washington. California is about the only State in the country that has given much attention to the subject Two or three factories of this kind have been in operation here for several years. They have had to contend with all the obstacles inordent to the establishment of in-dustries in new sections of the country, together with the addinal prejudice against the use of beet root sugar. Many peo-ple have assumed, without the shadow of an excuse for their position, that sugar made from beets could not possibly be as good as sugar made from cane. Some imperfection in the earlier years of the manufacture of the articlerather tended to confirm these prejudices. But the induslry has worked itself into a recog-uition of its merits, and of late years there has been no difficulty in selling all the beet root sugar that could be made in California. If the product had been twice

as large it would have been sold just as readily. The Alvarado refinery produced 1,391,688 lbs. refined sugar during its third season and 81,775 gallons of molesses. The product for that season shows a raine of \$158,617. The manufacturing exshows a raino of \$198,617. The manufacturing ex-penses were \$109,358, while the other expenses via cident to the sale of the product mere \$4,324, thus lonving a profit of \$44,936. This is no ministry that is susceptible of considerable indiagrament in this State. In Germiny, France and England, many thousand tone of heet root sugar are annually consumed. In some parts of Europe it is about the only kind of sugar need.



### CALIFORNIA BIG TREES - MARIPOSA GROVE.

England and Wales, 1,337 from Ireland, 177 from Scotland, 996 from the German Empire, 154 from France, 148 from Sweden and Norway, 2,016 to come from the rest of the world; 1 isbes and 11,316 are females—the excess of unlessing 3,291. The mumber of males between the being 3,291. ages of eightven and lorty-four are 6,280, and of males over the ago of twenty-time, 8,372, Dur county is credited with 2,329 farms; 103,370

We have more milk cows then any other county exempt Marin, which has 21,608; the county is credited with producing fiel,721 pounds of worl; 1,895,523 pounds of butter and 217,860 pounds of cheese. Marine excelling us in the production of butter, being crafited with 2,507,889 pounds, and

butter, being conited with 2,507,393 pounds, and San Maton in cheese, producing 288,215 pounds. In 1891 the acreage of vines in the county was 11,591 acres; the total wine shipments from Sonoma order 1,818,605 gallons.

Of mainfacturing ostabilishments, Sonoma county is cridited with 2P2, 1 volving a capital stock aggregating \$1,110,605, employing \$56 males. above the age of sixteen, seventeen tenniles above the age of litteen, not cloved children and yenths. Since 1880 the progress has been something mar-

Subscribe for The Resources of Calabiania.

#### PAMPAS PLUMES.

The pampas planue inrvest will begin during the next mouth, and those who are interested in the growth of this peculiar plant from the Brazilian pampas are already making preparations to cut, cure and export the crop.

In conversation with Mr. John Spence, who is now largely interested in the growth of and who may be justly termed the founder of, the pampas grass industry of Sanla Barbara, a reporter ob-

tained the following interesting information:
The demand for plumes is steadily increasing and notwithstanding the fact that the production has been nearly doubled within the past two years, there appears to be no diminution in the applications for fine plumes. New York, Boston, Phila delphia and other large office have, for some years, absorbed and monopolized the supply. It is only quite recently that a market for this beautiful grass plume from Santa Barbara has been developed in London, Paris and other Eurapean cities, in which they command fabrilous prices. In Paris a fine pair of plumes will bring five dollars, and no doubt as they find their way through the regular avenues of trade to Berlin, Vienna, St. Tetershing and other large centers of population, the demand will still be further increased.

It has been a mooted question here in Santa Barbara, which is the principal source of supply, whether the market would not soon become glutted with plumes. Mr, Spence, who has given a grent deal of attention to the subject, ridicules the idea of an over-supply. Last season Santa Barbara exported between 250,000 and 350,000 plumes, and still the demand was for more, production promises to be much larger than ever before, as many new plantations are now coming into bearing for the first time. A moderate canmale of this year's crop, places it in the vicinity of \$40,000 worth of plumes, all which have been months before they gave any indication of eprouting.

One gentleman has a plantation of 28 acres, another one of eight acres, and there are many small patches ranging from one to two acres, in

The pampis plumo flourishes best in the vicinity of Santa Birbara. It may be safely asserted that it will grow to perfection in no other portion of the United States. The climate here is exactly suited to its growth. High winds, wet weather, heavy falls of moist fogs, which would prove fatal to it, are never experienced here during the month grass produces its long feathery blossoms. It has been mainrid to perfection in English and French bot houses, but not in the upen air. It will not grow to perfection in the adjacent counties of south Californti. North of us, the moisture and winds affect it injuriously. South of us, the hot winds parch it and retard its growth, -- Santa Barbara

#### FRUIT AND GRAPE CULTURE.

A. W. Ermes, of Los Angeles, in the course of a letter to the Rural California, makes a comparison as to the profits of fruit and grape culture.

Now that the grape harvest is apou us, we bear of the large returns of wine and raisin vineyards to the fortunate owners of from \$100 to \$200 per. sere, and the question is asked, how those returns compare with other fruits? Many of us have heard of the San Jose orohard of twelve acres of apricuts, the erop of which, two years ago, sold for \$13,000, of \$500 per acre for Bartlott pears; and of three seven year old apricot trees at Riverside that two years ago produced 1,200 pounds. But these yields and returns are, of course, exceptional. Au orchard, at full bearing, ought to average, one year with another, at least 150 pounds to the tree apricots and prunes, if evaporated, will not three cents per nound; and at 100 trees to the acre, we have an average return of \$450 per acre for trees in full bearing. Pears will stand more trees to the acre, and apples, on a suitable soil, will produce a larger yield, bearing heavily every year, but apples evaporated will not only about one cent per pound. It is probably safe to say that orchards of properly selected truits, in full hearing, will double the annual coin production of vineyards,

There are ten or twenty times as many acres be ing plauted to vines as to trees, and if there is any danger of an over-stock of wine and raisins, there certainly is none for apricots, tears and princes. If dried apricuts were as ploity as prunes, there would probably be as many used.

The United States imported in 1881, 31,280,613 Des. prunes-custom boase valuation, \$1,552,946 17 raisins, 39,159,755 ths., valuation, \$2,711,771,74. In 1832, prunes, 59,170,395 ths., valued at \$3,083,956,10 -pad duty \$591,703.47. Bilsins 43,779,867 lbs. valued at \$3 260,033.71 -paid duty of \$1,097,496.71. From these figures it with be seen that the impur-tations are increasing rapidly, and that we have a large and increasing market to supply.

It has been estimated that at the present rate, of planting raisin grapes, in ion or litteen years we would be able to supply our own country. Without would be able to supply our own country. Without arguing that point this sub to say we never will bave as many apricots and printes as our own market will take.

THE PRIUT TRADE

Yield, Quality and Priess of Sauta Chira

Notwithstanding the untavorable condition of a term of drouth, followed by days of unusual beat which it was predicted would appreciably diminish the quantity of fruit grown in this valley the prescut year as compared with last, we are informed by a leading fruit grower, whose opportunities for culletting arcurate reports regarding the condition of the fruit interest are of the best, that the yield this season will not, as a whole, fall below the bulk of the last crup. The quality is fair, and, as to some fruits, will improve, he said, with the improvement to knowledge of horticulture of the growers, the work of cultivation with many of whom is tentative and experimental. By this remark it is not intended to assume a position of superior wisdom, but to emphasize the necessity of adopting the methols of work which long practice bas shown to be the heat. This is not done to the extent desired. There are, it is true, many growers who are abreast of the best demonstrations in matters pertaining to the oulture of fruit, but there are also many others who give tittle heed to past results ontside of their own narrow experience. The effects in either case are far-reaching, and will readily suggest themselves to the reflecting mind. With respect to prices, the fruit-growers of this county are doing better than they did last year, and recutving about 50 per cent, more than was paid ton years ago. For peaches, the cannertes have been paying this season from two and a half to four cents per pound, the latter figure for choice ching Prices for plants trave ranged from \$40 to \$80 per ton, the higher rate being paid when it was believed that the plum crop was to be very short. Prince have averaged \$60 per ton. For Bartlett pears two cents and two and a quarier have been the quotations, and they are lower now, as the quality of those grown here this season is not first. The best pears are those raised in the vicinity of the Sacramento river. Apples will be scarce and high, on account of the ravages of the codlin moth. Small fruits were nover so high as they are For blackberries \$4.50 to \$7 have been the prices per chest, and there has been such a scarcity of strawberries that, in giving cannery quotations, they must be omitted .- Sun Juse Mercury.

## MDUNTAIN VINEYARDS WITHOUT IR-RIGATION,

correspondent furnishes the Sacramento Bro with the following item of interest to all who are interested in raising fruit in the footbills:

I read with great interest an article in the Daily Bee, some time ago, noon the question of cultiva tion taking the place of irrigation, and I fully agreed with the writer at the time—that it was possible to make a succ as of fruit growing, and more especially grape growing, without irrigation. Since that time I have been privileged to visit a section of country where this matter is being practically (and I am glad to say, successfully) demonstrated I was at Colfax, Placer county, recently, and resived an invitation to visit the vineyard of J. B. you it was unfeed a pleasure to see this question so successfully settled. Mr. Whiteonthe. Whiteomb, of which I availed myself, and I assure located upon one of the dry side bills that abound around Colfax, and, in fact, throughout all our foot hill region. There are now twelve acres in bearing vines. There are a large number of varteties, embracing table wine and raisin grapes, and I was pleased to notice that all were a complete sucwas present of ecuality and quantity any vineyaril of equal age that I have visited in any location this season. It is an old adage that secting is believing, and I am sure that the many visitors at believing, and I am sure must me many values the Pavillion at this last fair will agree with me in my statement that Mr. Whitcomb's exhibit of grapes at the fair far surpassed in quality surpother exhibit there. At the same time I visited another young vineyard of 40 acres, called the 'Cape Horn Vineyard." This is owned by W. B. Hayfurd & Co., and has been described in your paper before. It was planted mostly of cuttings, whilab have attained in a marvelons growth, 80 per cent, being alive and thriving. In fact, this vinc-yard, by constant cultivation this acason, has in one summer attained a growth equal to the overage vineyard of two years ago. It seems to me, as witnessed the success of these vineyards, that I could see the future of our fouthill lands definitely settled.

#### STRAWBEIGRIES.

Ten years ago a Yolo strawberry was hardly nown. In tater years a few have expertmented with little spots, where fancy plants and special indiscements were offered this fruit to develop. But it remained for Mr. Chard to be the gloneer la strawberries as a business. The money we have expended in years past to expressing this fruit from the gardens of Santa Clara, and the lest and broken boxes for which we have pull, and the return of the chests, and grates, and luxes, have made our indulgence in strawberries and cream rather an expointive luxury. Mr. C. has so far been able to supply the town, and by this means has hept our money at home. - Yolo Mail.

SIDE HULL FRUITS.

the following:

If anyone doubts the entire suitability and fitness side-till soil for vine and orchard purposes, they should call at the office of Mr. G. W. Coffin where there is to day a fair exhibition of what an ordinary side-hill farm in this county can do in dry year. The samples from the Everett Hill ranch are grapes, applies and pears, the two latter being large and perfect aperimens of their individnal varieties, and the grapes being fine enough to tempt any man into turning vineyarilist, There are Black Hamburgs as large as plunis, Tokays several pounds to the cluster, Olivettes, Gordo Blancos, Bergers and four other varieties. No irrigating is done on the place in question and the grupes and fruit trees grow on slanning ground requiring but little care except pruning and cultivating once a year. Every side hill in this and ad-Jacent counties ought to be covered with these or similar fruits. That it would puy is not to be doubted, if the right sorts are planted. Santa Barbara had to import Muscate the year to supply the cannery. It is hard to account for this; there is no place in the world where finer Museuts can be raised than the samples now daily displayed at nur fruit stalls. Grapes are not to be mentioned alone Glauce at the peaches, nectarines, plums, apples, tigs, apricots, lemons and nuts that grow hundreds of feet above the sea level. Pears will also thrive anywhere. John Kreig shows to-day a bunch of 21 pears, weighing cleven pounds, which grew on the J. M. Short place at the upper end of town. Ross and other fruit men constantly have on hand samples of Flomish Beauty and other varieties that grow on the ridgy tops of our highest hills.

There is no question that this side-hill farming, as done by farmers owning a few acres each, is to make the future wealth and fame of this county, Ventura and the southern part of San Luis Obispo, as the side-bill placers enriched, in days agone, the

#### THE IRON MINE.

ever 400 Mea Employed Superfor Iron Produced to barge Quantities.

The operations of the Iron Company at II duling are growing in impuriance, and are being conducted on an extensive scale. The number of men engaged at the jurnace, mining out the ore, burning charcoal, cutting timber, teaming and in other ways connected with the business, unmber well up towards 300 men. Teams are constantly engaged in haulting pig from to the railroad station at Clipper Gap, to and one-half miles distant, where between 7,00 and 8,000 tous are now awaiting abipment. huge piles of metal never fast to attract the attention of passengers on passing railroad trains, who, by this means, gain some idea of the importance of this new industry in the foothills. A survey of a railroad route has been made between Ohpper Gap and Hulaling, but whether the road is soon to be undertaken is not yet announced, but that it will become a necessary adjunct to the business there is no doubt. The company has recently bought large tracts of land from the Central Pacific Railroad for the purpose of obtaining wood to burn for char coal, and also bought a great deal of standing timber from the individual owners on both sides Bear river. The consumption of timber for the kilns is enormous, all kinds belog used in making charconl, and in a few years the country around Hotaling for initea will be divested of its timber. The product of fron from these furnaces is of a superior quality, and now has preference over any brought to the coast. The Coutral Pacific Raitroad Company uses it quite extensively, taking regularly 200 tous a month for making car wheels and other work. It would seem as if at no distant day, rolling mills with be established at Hotaling, and that it is not improbable that it will become a place of little importance in the manufacture of from ware, —Grass Valley Union,

#### FRUCE

The Tulare Register says : To the practical finit grower the Tule River valley presents every advantage conceivable excepting that of a market. To be sure the soit is not all alike nor all equally  $g(\alpha s)$ . but the kinds are so numerous that our any be wishes. Some localities produce apples to perfection and others will not, so one must choose his location with respect to what he desires to grow the can grow apricots, penches, nectarines, plants and prunes anywhere. Apples will do byst in the footbills or on reclaimed awamp land in the valley, and oranges must be where they will be sheltered

### WHEAT GROWERS.

The Los Augeles Herald bus been furnishing a list of the wheat growers of San Fernando who raised this year a total of 197,951 sacks of wheat; John Clymun had 27,55tt; Kesterranch, 38,500; Van Nuys, 22,650; Patten, 16,500; Workinin, 17,655; Gov. Portor, 21,680; G. K. Porter, 16,000; Machay, 11,759; Januter & Barrett, 11,160; Hubbard & Wright, 15,500.

## The Santa Barbara Press, of October 10th, has NIGOLL, The Tailor.



JUST RECEIVED

A Fine Assortment of Foreign and Domestic Woolens for this Season.

# CALL AND SEE OUR NEW PATTERNS!

Suits to order, from ...... ... \$20 00 Pants tn order, from ...... 5 00 Overcoats tn order, from ..... 20 00

## MEN'S, BOYS' AND CHILOREN'S SUITS AND OVERCOATS,

Manufactured by Ourselves, after the Most Approved and Latest Styles, at Short Sulme

WELL CUT, WELL MADE, STYLISH AND CHEAP.

You will do well to inspect before purchasing elsewhere.

CIVILITY TO ALL. NO TROUBLE TO SHOW GOODS.

## NICOLL, The Tailor.

PHELAN'S BUILDING. 816 & 818 Market Street, SAN FRANCISCO.

BRANCH STORES IN ALL PRINCIPAL CITIES.

## THE ACCIDENT INSURANCE COMPANY

OF NORTH AMERICA.

ORGANIZED, A. D. 1872.

President . .. SIR A. T. GALT, G. C. M. G Vice-President HON, JAMES FERRIER. Managing Director ... EDW. RAWLINGS.

HEAD OFFICE, MONTREAL, P. O.

1MPORTANT

## Commercial Travelers AND MERCHANTS.

The new form of Polley Issued by this Company granis normassion for TRAVEL TO AND MESITENCE IN EIROPE AND MEXICO WITHOUT EXTRACTIVINGE

CHARGE AND MEXICO WITHOUT EXTRA
The fedlowing condition, SO OBECTIONABLE TO
COMME ICIAL, TRAVELEIRS, and here tofore much in
all Accident Pottle es, be not considered in time Pottley, by
"Standing, riding or being upon the ptatform of now
ing rathway cars, other tinns strong ears, or riding the may
place tool provided for the transportation of passengers

" or being on the bridge of any railway are
bizarable not contemplated or covered by this contract
And no sue will be paid for loss of lite or disability
(the consequence of such exposures) happening to any
other of a great and copings, who shall have given
notice of a great and copings, who shall have given
lors such lazarda."

#### IN EVERY RESPECT THIS POLICY IS THE BEST EVER ISSUED.

Call at our Office and Examine before you take or renew a Policy elsewhere.

The record of this Company is also unoquality. Not a slagle contest at law slace theorem, and the organization in 1872,

## H. D. IRWIN & CO.,

General Agends for the Partite Coast,

### 405 CALIFORNIA ST.,

SAN FRANCISCO, CAL.

JOHN T. TOY, . . . Olty Agent.

#### A GROWING THWN.

In looking around us to day, says the Times we find that Pomons is still building up as rapply as ever. In the past few months wonders have been achieved in both town and valley. A town has been built that almost ranks second in the county. Throughout the valley elegant houses have been built, and vineyards, orchards and fields plinted. Miles of cement pipe have been laid. Many artesmu wells hare en bored. The form has been supplied with water, and still the good work goes bravely on.

## ADVERTISERS

Canlearntheexactcostof any proposed line of Advertising in American Papers by addressing Geo. P. Rowell & Cos Newspaper Adv'g Bureau, 10 Spruce St., N. Y.

#### LOS ANGELES OIL

In company with Burdett Chandler and J. G. Bower, of this city, it was our good fortune to visit, this week, the oil region in township 3 south, range 9 ment, about seven milea northeast of Anaheim, and thirty miles cast of Los Angeles. This remarkable region is at the extreme eastern end, so far as known, of the great break in the sandroch that rests within the great oil lassins within the break is well defined from the San Gabriol to the Santa Ana river. Where the sandrock is broken and tilted northward, the gas from the oil lakes beneath the surface of the earth forces up the oil through the crevices to the surface where it runs off down the mountain and solulifies into asphaltum in vast quantities. This asphaltum tas now been accumulating for thousands of years and is of vast dimensions. It crops out at the base of the mountain in a belt that varies from 290 to 900 feel in width. After the most careful examination ological character, lucations have been made for wells and the work bus been commenced in a most beautiful spot between Herald and Brea Can-This location is most favorably situated for you. This location is most estorant, standard the oil, and Mr. Chandler expects to show oil in ten days or sooner. As the whole mountain rango seems to rest on oil sandrock, it rill be almost imposaible to sink a well without striking oil. There can be no doubt but that vast quantities of oil will be obtained and that it will be carried in a pipe line down to the railroad at Anahem. In a few short mouths we predict that a forest of derricks will stand like sentrics on the Santa Ana mountains, whose rocks will pour out rivers of oil.-Los An gules Hernlet.

#### LEVUS VINEYARD

This beautifully located vineyard, which is situ ated near Clayton and owned by J. Levi, is the largest now in the county. Mr. Levi planted thus season some 75,000 vines and intends to put in about 80,000 more. He shipped, recently, some 500,000 gallons of two years old wine,—Contra Costa News,

## MUTUAL RESERVE FUND LIFE ASSOCIATION,

55 Liberty Street, New York,

INCORPORATED UNDER THE LAWS OF THE STATE OF NEW YORK,

WARD B. HARPER, President T A AN Secretary. CHARLES R. BISSELL, Treast O. D. BALDWIN, President Fourth National Back, New York, Auditor of Death Claims and Reserve Fund. CHARLES R. BISSELL, Treasurer.

The Fourth National Bank has a paid-up Capital of \$ 200,000,000 dolly butance; \$30,000,000 passes through the President shands rach day.

CENTRAL TRUST COMPANY, of New York—which has seets of \$12,000,000—Trusters of Reserve Fund Account.

#### \$10,000 LIFE INSURANCE FOR \$50, \$5,000 FOR \$30

### OUR PILLARS OF STRENGTH.

First—traded assessments, so that the young and out will pay their exact proportion, and only as the same shall be required.

Scond—A Reserve Fund, so that the permanency of the Association is guaranteed.

Third—A carrful M-diest Examination, so that only the healthy can become members, thus hearing a low mortaints.

mortality.

Fourth—The Tontine System, so that old members will trach a point where no further payments will be required. New members will endeave to reach this point by being persistent to their payments for the Fifth—By placing the Trust Fund beyond the control of the Officers and Directors, so that no part of the same can be used in paying excitational saleries or expenses, or misappropriated or corruptly handled by them,

Sigh—An open Ledger, so that the effairs of the Association may atways be known to hemmbers

Scenth—The limitation of the expenses of the Association to the annual received from the admission fees.

No association presenting these combined features has ever faited in the limit of the admission fees. and annual dues. No association presenting these combined features has ever failed in the history of lugurance. No plan of tangence ever presented to the public has such a universal hold of the hearts of the public, and that been so unualmonely accepted as a sound basis for permanent protection to the tusured, as that atopted and presented to the public by this Association.

### THE ASSESSMENT FOR 1882, AT ACE 35, WAS ONLY \$3.10 FOR EACH \$1,000.

This Association is to-day composed of over fifteen thousand business men, such as Bankers, Merchanis, ryers, Elitors, Professors of our Colleges, Ctergymen, Manufacturers, United States and State Sanstors, Chiefs and Government Departments, and others, at united together for the protection of their faultins, upon a monoscuse plan, each member contributing the exact amount required for the protection attacked. Our business in force at the beginning of the year was \$1,561.00 At the end of the year it is \$73,270,250. The assessments for death ctaim per year, for the past two years, have been, at the average of 35, but \$3 at Dismanils dollars insurance, while all of our death chains have been paid in full when due; while, at the sage, the usual rates under the old system are \$16.50 per year, or \$53 for the two years, on each one thousand tars of insurance.

#### APPOINTMENT OF AUDITUR.

Mr. O. Bahlwin, the highly estermed President of the Fourth National Bank of New York City, a hank pos-sessing assets exceeding \$40,000,000, has become our Auditor of the Drath Claims, Reserve Fund and Assessment William the just four months be has caused two examinations to be made late our accounts. Within the just four months be has caused two examinations to be made late our accounts. In each case bis examination, as per his report, has proved eminently satisfactory

#### THUST COMPANY AS TRUSTEE

Your Board of Directors within the year have also selected the Central Trust Company, of this city, to act as Trustee of our Beserve Fund, of which Mr. Boary F. Spaniding is President, and the Bine. J. P. Olcoit, late Comparities of the State of New York, at the Vice-President. The contract made with the Trust Company places the trusts of the Reservet peculiation from other sources, The Central Trust Company in Seals capital and surplus of \$1,90,000, with assets exceeding \$12,000,000; thus all conceivable asfeguards have been thrown around the affairs of this Association. OPINIONS OF ACTUARIES.

Within the past year we have received written opinions from the great Actionies of our country, Hon. Elizabeth and Mr. Sheppard Comans, as wolf as the opinions of many other equally reliable Actionies. In every case the report has been that our system is correct, and our Association will be a permanent and useful tushington.

### TWO SYSTEMS ANALYZED.

fact is, there are two systems of Life lusurance in existence to day. The one is known as the Levet in System; the other is known as the Assassment System

#### ASSESSMENT SYSTEM.

The Assessment System requires the members to provide for their losses as they occur. It admits of the hours design the enviodance faller own money until it is absolutely medical, and its only weak point, as developed by the experience of the past, is a lack of rechestveness, which has been fully provided against under the Meserve Fund system of this Association.

## LEVEL PHEMIUM SYSTEM.

The Levet Premiure System requires the members to provide for the losses before they occur. To determine the proper amount to be collected in advance, they have adopted what is known as the American Experience Mortality Table. The correctness of this table is not a matter of doubt. That it, with the interest on the excess of against as as the only elements to be considered in making up the cast of the mammer, is a shepited particular to say the tess!

Our rates are that on actual and not on assumed mortality, as is the cass with the old the companies, which require in advance four time at the octual cost of Insurance.

WF PHIST CLASS MEN WANTED IN EVEHY TOWN ON THE COAST AS AGENTS, TH

C. M. OAKLEY,

General Agent Mulital Reserve Fund Life Association for the Puelike Canal, ALL MONTHUMERY STREET, NAN FRANCISCO.

SHME QUERIES ANSWERED.

A letter from Annapolis, Nova Sentia, has been received, and the writer asks for an answer to the following questions;

10. What is the present price of laud and can lots be obtained near the city at low figures?

2. Have you a near and remunerative market for Olve bighest and lowest prire.

onlify? Give highest and lowest prire.

3. Are there any diseases peculiar to the country?

4. Are buildings necessary for keeping pontry?

5. What is the mode of irrigation?

6. Gae lands be realed and at what figures?

When is the best time to come to California?

Answers.

1. The price of natmproved land in the ricinity of Anaheim, convenient for irrigation, varies from \$50 to \$100 per acre. The land at these figures is of tirst quality, and is unsurpassed for the growth s, oranges, lemons or other fruit. of the fluest vineyards and orchards in the State are to be found here and are to be found here, and on soil similar to that ive West of Ausheim, in Westminster townrefer to. ship, land is selling at from \$20 to \$30 per Part of this laud is alkali, but on most of it alfulfa can be grown, hence it is a desirable country for dairymen and stockraisers

The poultry products of Las Angeles county find, in the neighboring territory of Arizona, a market which it finds impossible to supply. There is a strong demand for eggs and poultry at all is a strong demand for eggs and pointry at airtimes and seasons of the year. During the past two years eggs have never brought less than ten cents per dozen, and the highest price paid has been 40 cents a dozen. It should be explained, however, that the low price of ten cents ruled but a few days, and was caused by an abnormal receipt of eggs from San Francisco. It would not be unfair to quote fifteen cents as the lowest figure.

3. If the third query relates to persons, we can emphanically say that there are no discasses peculiar to this country. It is the healtbiest part of There are occusional ileaths from mallguant diseases, but the cause can shuest invariably be traced to some insanitary condition of the imm diate surroun lings. Diseases never become denute. If, bowever, the query relates to poultry, we can say, upon authority, that they suffer no disease peculiar to the country, but improperly caredfor fowls are hable to dlacuses poultry the world over. Only this and nothing more

4. Buildings are necessary for keeping poultry, but they need be of the cheapest kind. "Buildings" is scarcely the word to use; "coops" would be more proper. This item of expense is trilling and inconsiderable. While upon this subject, we think our correspondent will be interested in reading the following statement published in the Gazette some time ago by Mr. W. G. Potter:

We have averaged about 150 bens, mostly Leg. horn. They have for their morning meal wheat bran and corn meal (about two-thirds brun to onethird corn meal) mixed with some milk and butlo milk, with scraps from the table. They are given also an occasional meal of boiled potatoes and other vegetables, and meat scraps procured from the port packing bonses, boiled and mixed with their morning meal twice a week; also a dose of cayenne peper once a week mixed with their food. At night they have whole grain, coru and wheat. For greeu food plenty of alfalfa. We can not give the co feeding, but have had to bny nothing but the bran

and scraps, as the grain was all raised on the ranch, Number of eggs laid (inclining breeding peus) from January 1st to December 25.b, 1882;

hrnery 1,683 creb 2,353 rit 2,312 cy 2,386	July
12,251	10,876 14,251
Total	23,127

The proceeds from the breeding pers for eggs and chickens sold, amounted to \$74. ceeds from the whole (including the breeding pens), for eggs and thickens sold amounted to \$571,39.

The number of eggs laid by slx Brown Leghorn pullets, from March 1st to October 1st, amounted

5. Vineyard and fruit land is irrigated with water from the Santa Anariver, conveyed through ditches to the land to be irrigated. The ditch which connoil there are probably four or five miles of distribnting ditches.

6, Land can be rented for grain raising. nenal rental is \$1.50 per acre cash for unbroken land, or \$2 per acre for had which has born culti-If the rental is on shares it is usually onefifth of the crup, delivered at the rallroad deput, each party turnishing his own sacks. The above are the terms of the owners of the Stearns Ranchus, Corn land usually rents for one fourth of the crop. shelled.

7. If one wants to come to Southern California he may come ut any time. The winters are mild, and force heal is not characteristic of summer, and if our correspondent is moved to make a change from considerations of health the sconer he comes here the better, - Antheim Guzatte,

THE TIMBER SUPPLY.

#### A Timber Man's Opinian Written by Duc Who Knows

We very often hear it stated that the Truckee number is exhausted, and that new fields must be songht. This is a great mistake indeed, says a cortrapondent of the Truckee Republican. We will start at the State line and risit the country as we go west. The first stream is Bell's creek, with right sections of hand and one-half section out. next is Wallace's rreck, where two timms in ve been used for several years, and non has been built and used for twelve years. Although a short stream, it half the timber stames. three units long, still traif Wicke's creek, next to Inru, brings us to one of it e thest woed and water privileges in the mountains; with its four large branches it drains and is an only outlet for ivenity sections, and only about two have so far here cut, and the Broner wood yard is always kepl full. During the pust fifteen years 50,000 cords of wood have been hanted there. On the porth side at Wiche's crick is a tract of yellow place that will cut 75,000,000 feet of the best of lumber. while on the head waters are the finest tamarnek swamps in the Sierras. A mile further west brings us to Cuba, where the Gray creek comes in dratning ten sections more of uniber land, which, so fur, has uot been touched. A little to this south and west four miles in Januper creek, draining fifth en sections, with only three cal. Our cext creek, of which the cast branch drains lep sections in their native state. The cast middle branch is occupied by the factory of Audrew Miller. Two sections comprise the cut here, and four mure are in their antural state. The west middle branch is occupied by Richardson & Bros. Four sections have been cut and eight more upon the Taline divide can be reached. The west brauch of Martia creek is mostly owned by George Shuffer, who is uow building a new mill in very fine timber, where years of work have been and slill can be done. We now come to the town of Truckee, where one of the most enterprising firms of the Sierres bave their works. The whole upper Truckee to Tahoe has for years and will continue for years to come, to supply them with logs and the railroad company wood. Although mills and axes have been at work ou Tahoe for ten years, still much more than baff the imber remains. Returning to Truckeene go up to Donner and the summit slopes, wherea great many acres of fine timber still atands. Climbing the bill north of Donner we enter a busin of six sections on Trout and Alder creeks. These land can be trached by the flume of Mr. Ellen, one of the sleekest finnes is, the mauntaios. The Alder creek timber still mostly stands, and will ared wood and lumber out for years. Our next stream is the noted Prosser creek, where Messes, Lunkey & Smith bare a mill and flume in the lower burder of the timber, and here only about one-third of the time ber has yet been cut. The same firm has a mill and flume on Sage Hen creek, which has so far cut but about four sections of the twenty on that stream. We now come to the Little Truckee, one of the most valuable and extensive regions of tim-ber in the Surrae. From Bora to Dog Vulley, 10 miles north, is a line strip of twenty sections; from Ingram station to Webber lake, including Sierra Valley divide, where timber can and most come to the Trackre, are one hundred sections. Around Webber and upon Henness Poss divide are forty sections more. From Webber to Independence take are also twenty sections, and around Independence down to Bock are forty arctions more, and of all this vast area but thronty sections are yet cut, and many of these only in part. Our next field is from Clinton to Dog Valley, where we find on the north sale of Truckee a strip of timber two and three miles wide for litteen miles, thirty sections more, and in Dog Valley there must be still some tirelye sections of good timber yet remaining. To take the Tripikee basin as a whole, there is at the present time not less than 5,000,000,000 fret of sawlumber remaining. This will shord 50,000,000 a year for 100 years. These facts are surrised at by actual exploration and observation. It is really a fact to day that many do not see a good my vestment in this tumber, as there is so much of it that it seems a long time before it all can be brought There is not another region in the mountains where the tacilines are as good, and where number can be brought to the railroad so easy In fact, the Trackee basin as the lumberman's par Sucramento Bee

#### POUTUNATE MAN.

Rev. M. McWhorler, of Biggs, is in big Inck. Some manths ago he discovered a vein of coal on railroad lands in Colusa county. When opened, it proved to be of an excellent quality, and apparently mexhaustible in quantity. The Control Pacific Company has paul the theorem \$20,000 as a toler of the gentleman's energy and success. Boshles this, Mac relatins one little interest in the property, the remaining four diffus being owned by capitalists of Culusa and Sun Francisco. We congrainfule the ex-journalist upon his good luck. He has a bounnza in the mine, and will in a few years be numbered among the moneyed men of the count, -Gridley

### THE RESOURCES OF CALIFORNIA.

JOHN P. B. WENTWORTH.

EDITOR AND PROPRIETOR.

#### PURLICATION OFFICE:

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SAN FRANCISCO ..... NOVEMBER, 1883

#### READ AND CIRCULATE.

When John have reart this paper preserve it and lead it to your neighbors, or send it to some friend in the Eastern, Westrey or Santlern States, Canada, England and Continental Europe, who will value the information it contains, and might be likely to enour or send intelligent, indus-trious farmers to settle in California.

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### INQUIRIES FOR LAND.

At no time in the history of California has there been such a demand for homes within her houndaries, as at present. It is gratifying to learn that the recent sales of real estate, in this city and State, are of an encouraging character. In our opinion there is no safer investment for cupital than in land. There is hardly a locality in the State but what offers good opportunities for the purchase estate, at prices that will a large interest on the money invested. Farming lands in Yuba, Sutter, Yolo, Sacramere to, and other valley counties, have advanced very greatly in price of late, and many sales have been made. Our exchanges from Shasta, Modoc, Trinity, Siskiyon, Plumas, Lassen and other northern counties continue, from week to week, to report progress in this direction. There are many sections, in those mountainous counties, that offer inducements to industrious and energetic persons.

The Sacramento Bee learns, from residents of the foot-hill sections of Nevada, Placer and El Dorado counties, that there is an increus ing demand for orchard and vineyard lands in those localities. Some lambs, recently purchased of the railroad company at low figures, have been sold at an advance of 100 per cent. and strangers are daily visiting the foot-hills in search of desirable locations. The records of the Central Pacific Land Department show that, within a few months just, nearly one million dollars' worth of railroad lands have been sold, in small purcels, to actual settlers, or persons who intend to become such at an early day.

In short, the land boom is not confined to any particular section, but it seems to be pretty general all over the State. Strangers looking for locations are everywhere numerons, and our exchanges, from the north to the south, report sales, in their respective localities, almost daily. It is feared that some of those now selling their homesteads and wet cultivated farms, because they can get what they consider a hig price, will yet regret their basty action. The Petalman Courter, for instance, in speaking of the real estate sales in its rection, remarks that the most of the men selling out, have, after a long struggle, just got into a position where they could live comfort-

mistake to sell unless they have a dead cortainty in sight.

We notice, also, that many large ranches in the southern portion of the State are being subdivided. This is the right policy for large land holders to pursue; such a course will greatly benefit the State, as well as themselves, for it will cause the immense tracts to be quickly settled with a dense population of industrious and thrifty farmers,

The ruirouds are justly entitled to a large share of credit for the settlement and development of the State. The Southern Pacific has opened up new areas of territory, within a period, which are being rapidly settled brief by a desirable population. The merchants of Los Angeles, and other large towns in that section, are now offered an opportunity for skipping their products to new markets in Arizona, New Mexico, Texas and even old Mexico. Since its completion, property of every kind has enhanced greatly in price in the southern counties.

As the State settles up, and railroads and other facilities are established, land will conlinue to advance in price. This has always been the ease since the early days of the Great West, and history will continue to repeat itself until the whole Western Continent is as densely settled as that of the old world Any person who has a few handred dollars, supplemented with a good stock of hard common sense, pluck and perseverance, can not do hetter than to invest it in real estate in Califorms. There is no part of the world where industry is better rewarded. The farmers of California are prosperuns above the average.

#### GROWING ORANGES

As it has been practically demonstrated that orauges, as well as the whole citrus family of fruits, ean be successfully cultivated in every portion of the central, and even in some of the northern consties, we have no doubt but a much larger unmher of these trees will be planted next season than in any previous year. We learn that many horticulturists propose to plant this fall extensive orange and lemon Besides, many yards, in the towns and eities of the interior, will receive the addition of a few trees, with the double view to ornament and fruit.

In El Dorado, Placer, Sacramento and Butte counties, oranges thrive well and are already a sonree of considerable profit. The Sacramento papers state that the orange tree grows in Sacramento as well as in any other place in the State, and that the fruit ripens there early and sweetens to perfection. The local papers add that no house in that city, which has a piece of ground large enough, should be withont un orange tree on it. The same will apply to many other places. The San Jose Mercary says, that the orange tree flourishes there finely, and when laden with fruit becomes a beautiful oranment. These trees are always bandsome as evergreens, and when laden with their rich clusters of golden fruit are really the most beautiful thing that can be placed in lawn or garden. Besides, a farm which has ornamental trees around the house, or even in front of it on the road-side, will always bring a large price when the owner may desire to sell it. There is no denying the fact that even the most ploibling and prietted men to be found anywhere in the world-men whose minds are, apparently, wholly devoted to money making, still have an eye for the heautiful, Therefore. we would suggest, that, taken in this point of view, it is advisable to plant trees around the farmhouse.

#### CLAYTON'S QUAKER COOK-BOOK.

This is a valuable publication of upwards of 100 pages. It is neatly printed and prettily hound. It is written by one of the enterers of the Pioneer times, II. J. CLAYTON, and is one of the most instructive works, on the culinery art, extant. It cost but \$1.50, and should be in every honsohold where good cooking may he desirable

#### VINEYARDS.

It is stated that a well-managed vineyard in California will been a full crop the tifth year, and furnish enough to make 100 hoxes of raising to the acre. The prospect for the future is, that the supply of raisins for consumption in America, will be produced in California, and saugidine grape-growers think ably and independently; and with such it is a that the future will witness their exportation. | Gator News,

### BOW A SMALL BUSINESS PAYS.

Instances are constantly loing mentioned in our exchanges, going to prove that a man can make a good living for himself and family in California by engaging in what some people would call a small husiness. There is no doubt, for instance, but a hundred and fifty hens will make a living for a family of two ar three persons. We saw it stated, not long since, in some one of our interior papers, that a conn cleared eleven dollars, net gain, in a single senson from one hen. She had three broods of chickons worth eight dollars; two lots of eggs which sold for five dollars. other hens paid him seven dollars each. A mak in San Jouquin county purchased, two or three years ago, twelve dozen fowls, from which he raised about 500 hens. For twelve months he carefully marked down his expenditures and sales of eggs and found that he had cleared the neut little sum of \$897,85. A farmer in Santa Clara informed us, not long since, that, in his judgement, there is no branch of business which pays the farmer so large an inter est for the money invested, or chich had teen so thoroughly neglected, by the farmers of that valley as poultry causing. He said there is not a mouth in the year that a flock of chickens cannot scratch a good living around the barn. A furmer in Amador county, recently told a correspondent of the Chronicle of this city, that, for three years, the proceeds of the poultry yard, in eggs and broilers had mujutained his entire family, giving him the coin, realized from his grain fields, to pay for the farm which he had purchased on time.

Now, comments on the above are nunccessary. It is a well established fact that, more money can be made in raising poultry, if of a good quality, and producing eggs in California, in proportion to the capital invested, than in any other branch of farming. The poultry husiness, like many other branches of industry. has grown wonderfully everywhere during the Iwenty years, and now lends nearly all others in supplying healthy food for the milhous of human heigs in the world. The extent and value of this branch of industry in the United States, at present, is by no means appreciated. It has been estimated that the total consumption of eggs (daily) in this city is 14,000 dozen. The total consumption last year was 4,886,022 dozen. Of these, 40,000 dozen came from Oregon, 951,290 dozen from Eastern States, 360,000 from Utah, and the balance from this State. In the places from which eggs are imported, the conditions and climate are not so good as in our State. fair to suppose that these eggs were sold at a reasonable profit after baving been brought neross the continent some 3,000 miles by ricil. The general scarcity of eggs naturally suggests the inquiry as to why a greater anmber of men and women do not engage in this branch of forming in California. It is most surprising to see so many idle people, in this and other large cities and towns of the State, who might go to the country and engage in this so-called little husiness, and, in a few years, become possessors of comfortable homes. Eggs are a cash article, and returns from them can be realized more rapully than in almost any other hranch of husiness. Those who are looking for some light and easy occupation should giv this subject attention. Here is a field for that chas of people, in San Francisco, who are always complaining that they cannot find anything to do by which they can make a living.

# HON, C. A. WASHBURN'S PAPER ON "FORESTRY,"

This gentlemma, on the 23d, of October, read un able and instructive paper on "Forestry," before the Geographical Society. It was listened to with marked aftention throughout, The paper, like all emmating from the pen this able writer, was full of valuable thought, and we should be tempted to coblish it in full, if the author would furnish us with « сору,

#### A PAYING ENTERPRISE.

There is a woolen mill in Santa Rosa that is in successful operation, employing 45 hands, none of whom are Chimamere. The mill pays well and recently had to enlarge to meet the dominand for its goods. The texture of the matermi turaed out is rated to Brat-class, would like very much to see a smailar enterprise established in this place, helieving that it would prove a paying revestment, -Los

## THE BENEFITS RESULTING FROM THE DIVISION OF LAUGH LAND THACTS.

What California has long needed for the development of her great agricultural resources is now taking place. We all ade to the devision of lands into smaller hiddings and the cultivation of a greater variety of crops. It requires no argument to prove that it is the part of wisdom for those owning large bodies of hand to subdivide them and sell to actual settlers. We are gratified to be able to state that this policy is being pursued in many of the agricultural counties of the State. For the purpose of showing how it will henefit one county, we will state that the enormous wheat rauch owned by the late Dr. Glenn, in Colusa county, is to be ent up (uto small sized farms. Instead of one farm house on 60,000 meres there will be handreds of hemitiful hanses dotted over it. When her minueuse estates are thus reduced and are held by the many, who will properly cultivate them, instead of the few who are exbansting them. California will become what it has the carmeity of becomine, namely the finest agricultural State in the Union In our opinion owners of farms, ranging from 200 heres and upword, would find it to their advantage to subdivide them into tweaty, thirty, forty, fifty and one limitalred acre lots, proording to praximity to towns. The increase in population, atone, would enhance values, Smull furms are the unrecries of a good class of agricultural laborers, and the State needs such. They promote thorough cultivation and build up towns and enterprises of various kinds in their midst

The advantage of small farms as tending to insare personal independence and national wealth, was very effectively illustrated by General Butler (one of the speakers at the great Dairy Concention held in New York) by comparing the agricultural statistics of France with those of the United States. He said, in substance, that with an area only a little larger than that of the State of California, but all divided up into small freehold properties, and every acre improved by careful enlivation, France, besides her wide, cured fruits, raw silk, and other special products, raises more wheat, burley, rye, onto and backwheat than all the United States; Rearly as many horses and neut cattle, more sheep, and more thun one-third the quantity of swire. Such comparisons tench us the wisdom of the policy, that France, by the subdivisions of the land, has made so large a proportion of her people freeholders and farmers.

#### A WIDE OPEN MARKET.

As an illustration of the extent of the market open to the fruits of California we mentioned the fact that fruit was shipped in September, from the Rancho Chico orchard to the State of New Jersey in the east, and to Fort Klamath in the north, a distance of 250 miles above Realding. the terminus of the milroad. There is in fact no limit to our market. The great Eastern cities have become heavy enstomers of fresh fruits from California, and now the interior towns begin to come in. Wherever there is direct rankway consentions the fruits of Califormia orchards may be sent in a fresh and The opening of communibealthy condition. cation along the northern line by the Villard road will make a great market for the fruits of the Sacramento valley; even as the opening of the southern route dol for those of the lower counties. The fruit lausmess in California is in its infuncy—even for feesh fruits. But the demand for dried fruits is unlimited.—Chico Eiderprise.

#### NORCHOSS & CO.

We call special attention to the advertisement of the firm heading this notice, to be found elsewhere in this journal. It is the oldest established house, now dealing in its line of goods, in the city. During the procession of the Knights Templar, recently held here, the alegant costs are worn by many of the members of Culifornia Communicatory, No. 1, which attracted the marked attention of so many spectators on that gale occusion, were manufactured by Norcross & Co. The estate lishment where its goods are manufactured is doing it large and prosperous business. most unbesitatingly advise all of our readers. who may wish to purchase anything in the line of goods maned in the advectisement, to give this old and favorably known firm a call.

Subscribe for The RESOURCES OF CALIFORNIA.

#### FRUIT CULTURE.

It is safe to product our early day when this State will rank among the first fruit producing countries of the world. Its yield this your, will probably unount in value to something over \$8,000,000. What may we expect a few years hence, when all of the young orehards that are now being planted come into bearing? It has been estimated that seventy five percent of our orchards devoted to the finer grades of fruit such as apricots, oranges, nectarines, limes, lemons princs etc., are not yet in full bearing. Each year will increase their yield. Our farmers are depending less every year on the wheat crop and more an general products and new industries. They are beginning to anderstand that unlimited markets have been opened up within a brief period of time, for all the varieties of choice fruit that can be produced. The demand for California fronts, in the Atlantic States and Europe, is increasing very rapidly. It is estimated that 12,000 tous of fruit were shipped overland from California this year. This is an increase of 1,000 per cent on the shipments of four years. Few people have a correct idea of the magnitude of the fruit cauning business of Culifornia. It will soon equal in value that of the cereal production. Last year it reached an enormous It has been estimated at nearly forty per cent of the value of the wheat crop and shout fifty per cent of the entire production of the gold mines. Many farmers have discovered that there is much more profit in an acre of orchard or vineyard than there is in several neres of grain. The investment of capital in fruit canning establishments, in various localities, is having the effect of eucournging fruitgrowing. Notwithstanding cauning factories have greatly increased in number within the last year or two, they are not half plentiful enough. There is no good reason why these establishments could not be made to pay a pro fit in every fruit-growing district in the State They could be run as cheaply in the interior as in San Francisco; and they would give employment to many boys and girls at remunerative wages. An establishment sufficiently large to use up the surplus fruit of its section of the State need not cost a very great sum of mouey, and it would be the means of keeping a considerable portion now sent out of the State, for canned fruit, in circulation at home. is said that "with all commercial natious the consumption of fruit is yearly becoming more enormous, and a vast importance must ultimately attach to the very few regions of the earth where fruits can attain the rich perfection that our climate and soil ensure."

#### AN IMMENSE WOOL CLIP.

The wool clip of the United States for the corrent year promises to exceed that of IS82 by 15,000,000 to 20,000,000 pounds, in which event it will aggregate about 320,000,000 pounds. The increase will be chiefly in the territories. As the requirements of American mills are about 7,000,000 pounds per week, if will be seen that even with this increase in the domestic supply there will still be nearly 50,000,000 pounds of foreign wool required to meet the wants of manufacturers. The deficiency is chiefly in carpet wools, to the growth of which comparatively little attention is given in this country. The bulk of the supply of this class of wool is drawn from the Mediterranean ports, from East India, Syria and Russia. In ublition to these imports, however, of Australian there is a considerable amount clothing and English combing fleeces unnually imported in competition with similar quanti ties of home-grown wool; and under the new tariff these importations are likely to increase unless lower prices are established for the new chip than were current at the opening of the grason last year.

### A GROWING LOCALITY.

The people of Santa Ana and vicinity have reason to be proud of their town and county. There is more solid improvements going on, and more good substantial buildings going up in Sauta Ana than in all the other towns, villages and launlets between here and Los Angeles. An allo carpetter can not be found in town, and wages are generally good. We notice, in our visits to Los Angeles, that the business men of that city regard this valley as the best portion of Los Augeles county, and yet towny of them have ever seen it .- Samue Ann Standard.

#### SPANISH WINE.

An interesting better from Spain by Alex. del Mar in a recent issue of the Chronicle of this city, contained the following spicy reference to the beauties of Spanish wine:

Grape vines are grown in Spain, as in Culifornia, without supports. The annual exports ure of common wine 35,000,000 gallous; Cataloumu wine, 7,000,000 gullons; sherries and ports, 12,000,000, and other kinds, 2,000,000; total about 56,000,000 gallens. The common wines go to Cette and Bordeaux, where they are mixed with water, cheup spirits, a purple coloring untter and some other aubstances. They are then bottled, labeled with high somuling names, as St. Julian, St. Estenhe, etc., and exported to all parts of the world as gennine Bordeaux wives. In many cases the udulteration is carried so far that there is scarcely a trace of wine in the mixture; yet when the palate becomes accustomed to it nothing else is recognized as genuine. About one-fifth of the so-called sherry wine from the Cadiz districts consists of low and spurious compounds mixed in France; about two-fifths of ordinary sherry, about three-tenths of good sherry and one-tenth of superior wines. best wines are from the St. Mary and Jerez districts. The grapes are pressed with the feet. The wine has an earthy, turry flavor, which is removed by "treatment." The adulterants used are water, molasses, litharge, gypsam and German potato spirits (kartoffel fusel). The crack "dry" sherries contain gypsum, a "colorwine" or wine boiled down to the consistency of sugar-house syrup; "sweet wine," or wine made from raisins, and broady. They contain trom 32 to 36 per cent, of alcohol. Most of the wines are transported from the country to the cities in ox and pig skins. What with the dirt of the fields, the dirt of the persants' feet, the dirt of the pig-skins and the dirt of the adulterants, the epicare in Spanish sherries most get a stomach full. That any decent. 'self-respecting white man" can without repagnance, pour down his throat such namitigated nastiness is only to be accounted for ou the ground that he is utterly unaware of its history and composition. That before many years California, with its superior methods of handling and transporting wines, will drive Spanish wines entirely from the markets of the world is my firm conviction. But a few years ago Russian Ghirka wheat brought the highest price of any cereal in the Liverpool market. This distinction now belongs to California club wheat, and it is said to be due as much to the superior cleanliness of the article as to its other good qualities. A German brower who uses a battery of magnets under his wheathopper told me that he had taken several tons of old iron out of his Russian wheat, but never a nail or a bit of wire out of his California consignments-and as it is with junk iron in wheat so it is with dirt in wine. The California article is free from it.

#### A HINT TO NEWCOMERS.

From our interior exchanges we learn that the outlook, for laboring men, all over the State is excellent. The time has now arrived, in California, when farmers can keep men employed the year around. To those newlyarrived immigrants, who are looking for work, we would say, do not go near the cities; better strike (ight out, on arriving in the State, into the agricultural districts and accept the first opportunity offering for employment; go to work and you will learn more that will be really valuable to you alrout the State and its people, in a few month's lime, than you can learn in a life time in the city. There is a good demand for laborers, at fair wages, at the present time, and the prospects for its continuance are far better, in our judgment, than they have been for many years. As a consequence of so large a harvest of many products, farmers will iucrease their acreage, which, with new laddings, repairs, etc., will absorb a considerable force both skilled and unskilled labor through the fall and winter months.

## RICH SULPHURETS

The Murchie Mining Company has shipped thirty tons of sulphurets valued at \$250 a ton to Omnius, for reduction. This is done as an experiment, it being chimed that by a process in equerations at Omnika botter results can be obtained then on this Coast, It remains to be seen low well this claim is founded,-Nevada Transcript.

### EVIDENCES OF CALIFORNIA'S SUCCESS.

A writer in the agricultural department of the Record Union, in the course of a recent article, speaks as follows of the steady prosperity of the Golden State and its future

We are now enjoying the golden season of the year, when the "Harvest Home" is sung in glad realizations of the honntiful blessings enjoyed from well-laden fields of grain and gatherings of fruit during the senson just closing. Although there has been in some ections a lighter yield from various causes than in some previous years, the general ontcome of the summer's productions has brought prosperity, and given continued reason for content in our highly-favored land. The practical demonstration to the people in the East of our untural resources and greatness by extensive exhibits of California grains and fruits at the Illinois State Fair and elsewhere beyond the Rocky monutains, has not only removed the quite general belsef heretofore entertained there, that the reports of our productions were overstated and untruthful, but these impressions have been overcome and refuted by the official reports of State Pair Commuttees, who not only with entire willingness acknowledge all that we have claimed and that the products of nature assert for us, but in their enthusiasm over the marvelons growth and quality of our cereals and fruits, officially say "the half has not been told."

The results which will flow from this, and the continued prosperity in all departments of industry in our State, will insure very soon largely increased population, and with such increase will be a corresponding growth in values, demand for property, breaking up of lurge, neglected holdings and pasture ranges and pleasant small, well-tilled forms homes; greater demand for skilled labor, increase of employment on the farm and in the shop; greater perfection in educational facilities for all, and the full realization of the possibilities which Providence, by the bestown of unequaled natural advantages, has intenfor those who have pursued the fleeing goddess of "Westward, Ho!" to the final limits, and chosen their heritage within the borders of the Golden State.

The evidences of prosperity which are to be seen on every hand in the city and country are of the most substantial class, and form a natural step in the development towards the higher and advanced condition to be reached in our State life and history. The increase in the agricultural and horticultural industries of last year were alone a most notable feature, but the increase the present season heyond that of last will be upon a far more extended scale, and these will undoubtedly continue with higher ratio from year to year.

#### VALUABLE LAND SOLD.

Last Monday J. W. Patterson sold to H. D. Feruson a piece of land contaming fifty-four acres lying at old Roble station, a mile and a quarter northwest of Durham and five miles from Chico. The price paid was \$70 per acre We are told that any of the land in that neighborhood will command the same price

Will it pay to raise grain ou land at that price? Yes, with good farming and favorable seasons. But suppose the price of land should continue to rise, what then? Then the order of farming must change. The land applied to the production of something more remunerative than grain. The fact is, all the hand around Chico and Durham and Duyton is most admirably adapted to fruit culture. Fruits of all kinds grow and bear shundant crops without irrigation. The day is now on us when those lands must be so applied. Their present owners, va a general rale, prefer grain growing; but will begin to sell off in muller parcels to those who prefer fruit culture. All that is now needed is for some one to make the start, General Bidwell is not selling off, but he is rapidly transforming his grain fields into orchards. These lands are worth \$70 an acre for grain growing, but are worth \$200 an acre for fruit culture. will smile at these figures, but we shall live to see them verified, and that within five years from this date .- Chien Enterprise.

#### WOOLEN MILL.

A woolen mill and wool scouring works, at Chian, are projected. It is rumored that several of our lemling citizens will engage in the enterprise.

#### FOOT HILL LANDS.

There is no doubt of it, the f ot hill lands along the western hase of the Sierras are coming into favor, and will be more sought for in the future than they ever have been in the past, because it has been demonstrated beyond a question that they are proving to be the best lands in the State for the cultivation of fruits and vines, their flavor excelling the like products raised in the low and flat regions of It is nuderstood that there can scarcely he a limit to the market that is offered for the product of the grape, whether in the form of wine, brandy or raisins, as no matter how fast vineyards increase, the demand for their crop and vintage keeps equal pace. The cultivators of the grape in California, have been learning some valuable lessons by experience. They at first sought moist lauds to obtain a quick growth for the vines, but they in time lourned that moisture deteriorated the flavor of the grape. Hillaide lands, with irrigation, was considered the next step in advance, but irrigation makes the roots spread out laterally near the surface, and the orrigation must be kept up to insure the strongth and growth of the vine. The letest and hest experience is that grapes grown on broken, or hill land, withont irrigation, have the hest flavor; that the roots will go deeper sceking for moisture, and are stronger and healthier after a few years. This being true the footbill hands will generally meet the necessary requirements, and offer the most desirable locations for vineyards that can be found. The red lands are found to be particularly good, and some contend that grapes cultivated upon themare to be preferred to those raised in other sections, and this fact must establish the reputation of the foot-hill lands for vineyards, and hereafter give them money value they have not before possessed. It will not be many years before the value of the products of Californic vineyards will equal the present yield of the mines, and it will be a satisfaction to know that the region which first gave the State importance, by its yield of precious metals, can bestow equal wealth from mother source of almost illimitable imbustry. Grass Valley Union

## THE BONANZA KING MINE.

The Calico Print, published in Calico mining district, San Bernardino county, makes th following mention of this celebrated mine, loeated in the center of this notable mining set-Hemeul:

The center of the Bonanza King is simply immense. The fourth intermediate is opened 125 feet in the finest ore body without doubt I ever saw. In this drift and winze I can show any man \$2,000,000. I can take out \$10,000 a day with eight or ten men. The dumps con-tain half a million dollars. The ore house at the mine, and the ore bin at the mill are all full; the mill run but 2014 days for August, producing \$44,500. The mill is running heautifully now, producing \$2,180 per day-ten stamps, dry crushing-a record never equalled Total product for year, so far, is I predict three-fourths of a million \$144,820. for 1883. If any mine in the west can heat it l am delighted.

#### RISE IN LAND.

The following is from the San Luis Chispo Tribune: A few years since a lady in this county who had accumulated a little money as a school teacher, made the purchase of a small ranch in the fertile region of the Arroyo The investment aggregated \$3,000. Grande. After holding the property two or three years she sold one-half of it for \$1 000-being cautious and thus making sure of her investment so she felt like resting easy with the remainder as all it cost and \$1,000 more had been returned. But during the past few months an offer was made of \$8,000 for what was left of the original purchase, which was accepted, und \$12,000 returned for the \$3,000 invested. The property bad in the meantime been leased und returning a good rental, so there was no deduction of taxes, interest, nor insurance to take from the profit of \$9,000.

### FORTUNES IN TIMBER.

According to the Shesta Dearwoord, the tranher belt along the Pat and McCloud rivers, and the head-waters of the Sacramento, is being rapidly pre empted. That paper thinks there are fortunes to be numbe, in these regions, as soon as the radicoal passes through, by those who get slices of the fine sugar pine.

### LETTER FROM BANNING.

The following, which we copy from the Press and Horticulturist, published at Riverside, accords with our oft-repeated statements of this sec tion of our own heantiful State, therefore, we give

EDITOR PRESS AND HORTICPATPINST: -It has been said that all accidents are dispensations of Providence for the benefit of newspapers, and when, during a recent trip through our section, your old friend G. W. Bryant got mu plodged to tell you something of our surroundings, I felt constrained to believe it was true.

The railroad traveler coming from the heated glare of the Colorado absert is always impressed by the striking contrast presented by this magnificent gateway of the Sierras, savoral miles in width-on one side the sharp peaks of Mt. Sau cent gateway of Jacinto, with its snow-capped walls of lava and etached patches of forest; on the other side the bare and lumpish granite mass of Grayback and San Bermardino; while butween these giant walls are the two valleys known as San Gorgonio Pass and should the travelor chance, ot supset, below these sentinel peaks he can not fuil to witness a weird and impressive sight, when the western waves of elding day light up their snowy crests with billows of purple llamo. The Pass is traversed by the Southern Pucific Italirond. The western or mesa lands of the Poss are known as the Sammit lands and comprise more than  $12_{\rm c}$ 000 acres of perhaps the finest grain lands in this Within the past year about all of this faul (Government and railroad) have been entered or purchased by settlers, and during the coming senson nearly all the entire area will be under cultivation in cereal crops. The soil is of the richest character, a ferruginous clay leam-friable, yet retentive of moisture. The harby grown is plump and bright in color, and eagerly sought for pur poses of brewing, and though craps were elsewhere light throughout the State, here more than bushels to the acre were averaged. These lands were, but a few years since, held as worthlessand under this impression were ulliaved to be entered at the Land Office under the Desert Act. They require no irrigation. Experience has domonstrated that by summer faflowing a full half crop is sure in seasons of drought. While water is found in most of the numerous carryons rannifying from the mountains, on the pfains several are now boring for water and with good chance of success At San Gorgonio or Summit station excellent water was found at a depth of 130 feet.

The eastern or fower part of the Pass, where the railroad station known as Banning is situated, The soil is mostly embraces about 7,000 acres. rich alfuvial loans of a sedimentary character.

The elevation is nearly 2,400 fort above the sea level; and probably from this fact, with its close proximity to the Colorado desert, the configuration of the mountain ranges, and the distance from is produced a climate probably unequaled in the State. The monutain air is tonic and invigorating. This coupled with extreme aridity is the leading characteristic. From the heated column of air on the desert there is frequent though not unpleasant atmospheric change. A more perfect climate for the cure of pulmonary discases, during the spring, summer and fall months, can hardly be realized. The winter mouths are colder and the wind sometimes more violent than in the lower valleys-and occasionally an old fashioned snow sturm will serve a minder of other days -hut through all is felt the essential characteristic of dryness and exhibaration. An occasional fog cloud will penetrate a part of the Pass though quickly dispelled. The thermonieter will show in February sometimes about 25 degs. F., and in sunoner may reach even 102 degs. F., but these extremes are mre indeed. rence of the writer, who has resided here upwards of seven years, may be worth mentioning in this connection. Suffering for many years from pulmonalis with accompanying hemorrhage, and re-covery despaired of, he has sought in vain relief in Funchal, Florida, Aiken and other resorts, and has by residence here been restored to comparatively sound health. Due can spend nearly every day in the year out of doors, and find, in immediate proximity on the mountains and find, the infinite proximity on the mountains or flexert, any temperature desired. Many others have here been restored to houlth. The amount of rainfall is generally from mino to fourteen inches, enough to ensure an average crop.

Recently a large tract of fand with water right has been purchased here by Mesers. Filkins and Bryant, of Riversule, for purposes of colonization. The water right (Sun Gorgonia creek) is one of the most valuable in the State. There is a constant flow of from 250 to 300 inches, and this can be largely augmented by easy development. This stream has, for several years, been in part used for fluming wood from the mountains. The water is limest quality, cool, suft and pure. The tract of land mend excellent quality, and can be reachly irrigated. It has been demonstrated that rates, and fourtside chi (from the volcanic tafa or soif, and the exceptional at all.—Chico Record.

dryness for curing and earliness in ripening), finer raisins can be easier unde hare than elsewhere. The hard and climate are specially adapted for the culture of the wine grape. The celebrated vine yard of Dr. Edgur is near here, said by Nordhoff to produce the host wine he had tested in California. The winter is too severe for the successful growth of the citrus family, but most of the decideous fruits grow well-especially arranes, plums and apples, which connet be profitably grown in the The peach and aprient have here lower valleys. The peach and apricot have here an unequaled flavor. During the past season fully 25,000 sacks of grain have been grawn here and will be shipped from Burning. The advantages for a successful cobiny are beyond comparison with many other places. Pure and abundant Pure unil aligndant water, excellent soil, bracing mountain air, a ready market at the railroad depot for all products, being the nearest cultivated section of this country to Arizona, a large grain producing region There is abunsurrounding assures prosperity. dance of firewood and timber on the mountains near by. There are post and express offices, good church organization. district school and judicial township of San Horgonia line existed for several years, and extends from here to the Colorado river. Altagether those who heat know this promising region predict a great future for this new settlement. There are no government lands open for settlement, though a few remain of raiload lands. Well-wood Mydraw. Banning, Sun Gorgonio Pass, Oct. 16th. road lands

#### THE FIG BUSINESS.

One of the rising imlustrics of this section is fig culture. Until recently figs were a drug on the market, as there was but a limited demand for that fruit. But this season the commerces have been purchasing all they could at paying prices. Our neighlier, James Stewart, owns an sere planted to trees which he had been thinking seriously of dig-ging up, as they had proved unprofitable, but as good luck would have it, he did not do, and the result is that this season he has sold \$300 worth of figs from that one were and there is still \$100 worth of fruit on the trees. Our friend has decidedly changed his mind concerning the fig business.

Mr. Hutchings, who nwus a small farm in the suburbs of our town, has had like satisfactory results from the few fig trees on his place. From five trees he has sold this senson \$35 worth of figs. At that rate an acre of figs would yield about \$700. Los Augoles county is still in her infancy so for us the development of her resources are concerned. Every season a dozen or more paying enterprises are developed. In a lew short years our county will be known for and wide as the banner county of the State and the garden spot of the world, Downieville Signal.

#### A LITTLE BONANZA.

Last week a rich pocket was struck in the Iowa mine at Sutter creek, adjoining the Maboney on the east. The name has been operated, on a small scale, by A. Tibbetts and J. Tucker, the owners, with varying results. Last week they stumbled across a little benauza, taking out in a short time a quantity of gold reported to be worth all the way from \$12,000 to \$17,000. Tiblietts welf deserves the good forting that has so sublenly dawned him. With finited expited and in face of difficulties that would have staggered most he has stuck to his mine, maintaining the utmost confidence in its resources. The discovery can hardly fisil to encourage the fasther development of the Mahoney. -Amador Ledger.

### IMMENSE YIELD OF GRAPES.

G. Graezinger, of Yountville, had this year, on one small tract, the largest yield of grapes we have ever heard of. It is a triangular piece, containing 4,059 vines, off of which was picked, by correct account, 69 tons of grapes, reserving 50 vanes for family use, and besides also about a ten destroyed by chickens. Seventy tons are 140,000 pounds, which divided by 4,009, the number of vines, makes nearly 35 pointds to the vine. We do not know how many seves these particular vines make, but as the range is from 800 to 1,000 per were those is probably about 11 acres, which would make a yield of ever fifteen tons per acre. The variety is the Frontiguan, and the value of the 45 nere crop is about \$2,100.-St. Holena

### BUTTE CHEEK GOLD DUST.

It has hoor some time since anything like a good display of gold dust was made from the Butte creek chims, but a miner deposited near two thousand dollars worth of suggests in the Bank of Butto County this morning, the result of a small rlean-up. He says that not much is doing in the mines at present an account of the secreity of syntax, and "autside chains" are not being worked

### HIGH PRICES.

A subscriber in Lynn, Massuchusetts, writes that California vaisins are salling there at fifteen cents per pound undit is hard to find them at any price; plants two cents a piece and apricats thirty-five cents, for the apound cass. Odderlo Fraid

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ACRES IN SONOMA COUNTY, 2 miles from depot and post-office and half a nullo from school. 34 acres is perfectly level, balance gently rolling; pool well, particularly adapted for fruit; 2 acres hops; vineyard and orchard; and boclimate: 4flit cords of wood cut and ready for building; plenty of standing finiter, white will more than pay for the place; common house five rooms; barn and outbourse; 2 cours; 4 good work horses, with their harness; 1 four-horse wagon; 1 troc-horse wagon; 1 troc-horse wagon; 1 kranges, with their harness; 1 four-horse wagon; 1 troc-horse wagon; 1 kranges, with their harness; 1 four-horse wagon; 2 kranges, 2 krang

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59,000 niles from Napa City; good hard fin-shed house of 9 routes and flor cellar; bare: whutmill-lonk; and other outbuildings; 25 acres of vineyed, foreign varieties included thelefers; all good hard fenced hat 5 lats. Fertos casy. W. M. BRANDON & CO., 344 Kentry street.

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This ranch is more used for intrying, but a large proportion of the land its subject to entityetion, and being absolutely free from froat is excellent for ordered or vineyant. W. M. BRANDON & CO., 344 Kearny street.

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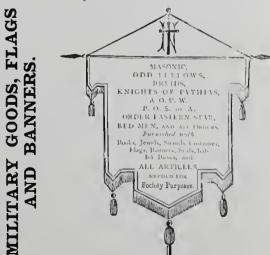
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Sheep men report the season's olip the largest they have realized for many years. Annung the really remarkable averages we bear of is that of J. really remarkable averages we cent in its march of D. Brazollon, whose herd of 1,000 averaged 3 pounds each. This is a big average, yet smaller bands can be cited where the average is gasaler. There are thousands of acres of footbill land in the county especially adapted to sheep raising, and in time the industry is likely to become one of the most profitable pursued by our people.—Gridly Herall.

F. P. BACON, Pres.

C. L. FOUTS, Sec

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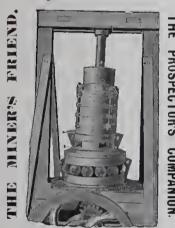
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## GRAND INDUSTRY OF THE FUTURE.

Here is an item that should be carefully digested

Charles Martell of Vacaville raised this year, on two acres of ground, twenty tons of Tokay grapes, for which he received, on the ranch, \$85 per ton, making two acres yield him a gross income of \$1,700. The cast of plowing, proning, suckering, aniphuring and picking will not exceed \$15 per .—Exchange

Just think of such enormous profils and then compare them with your grain fields. Telinma county has thousands of acres particularly adapted to the collivation of grapes and rruins, and yel it is an industry that is not thought of. We have thousands of acres of bottom land and mountain valleys that no land in the world will surpass in the produclion of fruit, and yet we continue to plod along with our grain fields. There is not a ninery or a vineyard of any consequence in Tobama co unless we except Stanford's, and our untural resources are allowed to go to waste in the produc-llon of cereats. The best economists of the time are unanimously of the opinion that our vineyards are sure lo lake the first rank as the grand industry of California. When land will grow grapes it is too valuable to grow grain, and it is only a question of time when the cultivation of the vinfruit tree will supercede the cereal. Our rich, alluvial bottom lands, ami still more fertile mountain valleys are sure, in time, to be converted into vineyards and orchards, because farmers will see that their profit lies in that direction. Of course we have some farmers with fogy notions who stand back because they are afraid of an over production of wine grapes. They are afraid that if everyholy goes into the grape business in California that the supply will become greater than the demand. It is only a question of time when such farmers with their fogy notions will be pushed aside. The must pareful observers have come to the conclusion that if every acre in California is converted into a vineyard it will still be impossible to over-supply the When we reflect that wine has always superceded all other beverages wherever it is produced, and that America has not yel begun lodrink wine as other countries do, we may form some idea of the demand that is sure to grow into existence. When we reflect that Paris drinks more who in oue week than Colifornia now produces ma year, we can form some idea of the supply necessary when the demand is oreated. When we reflect that there is so much profil in our wine now, when the industry is in its infancy, and the stricle manufactared is crude and imperfect, we may have some idea of what the industry may be when our methods become perfected. No, there is no danger but that there will always be a good market torall the grapes California can produce and the farmer stands in his own light who continues to grow grain apon land that will produce good grapes. Our larmers should reflect upon this matter and observe the immenso profits realized by other sections in the State, where the rineyards are still to their infincy,-Tirhamn Torsin.

#### A GROWING CITY.

As an incident of the visit of Mr. Charles A Dana to Los Angeles, the following appears late issue of the New York Sun:

Los Angeles, California, has made much progress, malerially, since the construction of the Southern Pacific Railroad. A population of 22,000 is now claimed for it, which, it correct, would show an increase of one hundred per cent, within a few years. The influx is reported to be so large that there are neither dwellings, stores or hotels sufficient to meet the demand. There is hardly a block to the town ritbout new brildings in process of orec-tion. The suburbs are exceptionally beautiful. Handsome villas extend for two and a half miles in all directions, and each has its vines, orange trees, orchard, and flower garden. The surrounding country is an almost unbroken tract of vineyards, orange groves, and fruit ranches. The American population is of the most intelligent and cultivated Many professional men have settled litere lu truit growing and wine making, being attracted by the well nigh perfect climate and the fear of falling victims in the Eastern States to hereditary consumption.

#### SAVING COLD.

At the Indian Valley mine, Plumus county, every precaution is taken to save the gold, which is very fine and difficult to catch; an nonsual proportion of silvered plates is used, then there is a volving cylinder, into which the sand from batteries is put and thoroughly worked to secure what aminigam it may contain; after being worked in this eyinder the sand is conveyed to moscillating pan where it is again slaken and ground by phases of trou and round balls weighing four or dve pounds. In the sinices that carry away the tailings buxes are placed that serve as traps for calculug any gold or aunitagem that night have escaped; three are examined every frividays, in order not only that the gold may be recovered, but also that the fact of its escaping from the mill may be known and like cause ascertained and remedied,—Cor., S. F. Mining Press.

#### MERCED'S FUTURE.

The prospect for a period of prosperity in Merced county was never more flattering than at present. The Farmers' Caual, under the management of C. H. Huffman and Chas, Crocker, when completed will carry a body of water that if judiciously utilized will irrigate thousands of acres of land-soll that if cultivated properly will produce more in the acre than any other land in this valley. Some of the large land owners through whose land the canal will pass inlead to cut their land up into amall tracts and offer it for sale at such prices as will induce a thrifty and desirable class of citizens to settle in our county and purchase permanent homes, with a good system of irrigatice, and which the acttler can make more than a living on. It will be but a short time before Merced county will will be but a snort time before Merced calliny win-have a now and thriving population. There has not been a day for several weeks but some San Francisco capitalist has been here looking for in-vestments in land. It is critient that these men consider Merced county a good and safe place to invest their money, as all kinds of real estate in this county has an upward terriency, and some has been county has an upware removed an extended withdrawn from the market allegether for the present anticipation of hand-onne prices in the near fintire. The lots owned by the ratiroad company on Front street, near El Capitan boled, are not on the market at all. In the town of Merced improvements are constantly going on, and man are not afraid to invest their capital, for they expect a good arran to invest unit capital, for they expect a good return on their investments. In addition to Merced county's not and productive soil, it has a remarkably healthy and delightful climate, which is a grout inducement for peuple to settle here. This is one of Merced's presperous years, - Merred Express,

#### AGRICULTURE IN CALIFORNIA.

In reply to some of the newspaper statements, that agricultural pursuits are abnormally hazardous on account of the incertainty of the seasons. the Los Angeles Express says:
Agriculture in California is not yet a score of

years old. Indeed it is only about a dozen years since any large effort was made in this direction. In that time, taking the Stalo as a whole, we have had but one disastrons year. The worst year that could come me have citrus and deciduous fruits, rines, allafta fields, river bottoms for curn, potatoes and vegetables, which would support the State and lease a striplus to her could!. There are some par-tions of the State where the rainfull, in average years, is harrly sufficient to produce a cereal crop, and in these regions lbcto is some anxiety until the dne precipitation bas taken place. But these areas are small. As a matter of fact, in threnty years the ramfall to these parts of the State has not failed ranifal to these parts of the State has not tailed note than brice. There is only on contingency with our formers, that is, we may be stirted in rain; that assured, all is sure. As ne have said, in thenty years, rain has finied but three at the outside in some parts. In the rest of the State there has been, over half of it, one thry year in twelve. The other half has never ball adry year. The worst year no more than support ourselves. We chal-lenge the world on that showing.

#### DITATING TREATS.

The Mountain Reho, published at Angels' Camp, Calaveras county, has the following mining items:

The south extension of the Gold Chiff owned and worked by James Matson and Son, may very proporly be ranked among the many valuable mines in this section. We paul a visit to lbis mine the other day, and in our judgment-although the ore is low grade—it is one of the best mines in this section.
The facilities for working this claim are unsurpassed and almost line entire hill will pay from two and a half to four dollars per too. The mine is not thoroughly opened. The ore is worked by arasta process, but the proprietors intenderecting

a slamp mill as soon as circumstances will permit. E. K. Stevenot has recently completed the tunuel in Chaparral Hill, near Carsons, The tunnel is about 150 feet in length and taps the mine 80 feet befor the sucface. He has opened a rich mae be-yond a donbt. The vein at present is eight feet in width and assays from \$6 to \$14 per ton. The mine was descovered in early Mays by Captain Mirch and others and an immense deposit of gold was by them taken out. Mr. Sh vouot is an energetic and persevering nimer and has money to back his judgment. We may therefore look for rich develop

#### GOOD ADVICE.

The following sensible suggestion, is clipped from the Peluluma Land Journal;

People from abroad are coming among ua. Let us treat them well and welcome them. If the particular piece of property we want to sell them does not suil them, reter them to our neighbor, who has property. Let us not, any of us act the dog in the manger, but let us be hig-monded, liberal bearted. and redcome the very destrable class of people who are coming among us to hospitable houses. There is room enough for us all while this generation hate. And while we live and our lots are cast in such pleasant places, let us originate adjusted the share the will our felton-mortals. There is enough lare for us all, and for the stranger who may sit at our board."

### A FERTILE SPOT.

As fertile land, as genial climate and as benutiful scenery as are to be found anywhere in California, can be found in the little nooks and valleys with which the ranges of monntains in and surrounding Nupu county are broken. Many of these are in the "thermal helt," and have a climate in which anything can be raised native to either temperate or semitropical regions. Their healthfulness is un-surpassed and the farmers who inhabit them are as happy and prosperous as the majority of tillers of the soil. Concerning one of these spots, and not an exceptional one, the editor of the Dixon Tribune writes as follows:

" During a recent trip up Putah Canyon, we called to see an old Solanoite, Geo. C. Mc Kinley, who has settled on one of the many little valleys that nestle at the base of the precipitous mountains of that tortnons pass. He is located about eight or nine miles west of Winters, and a short distance over the Napa line. Mr. Me Kinley has about forty acres of tillable land, that can produce anything in the fruit, vegetable or cereal line. He has a field of the finest Spanish corn we have seen during our residence in California. He also has a small field of pop corn that is very prolific, several earing as many as eight well-formed ears. His melous are in splendid condition, his young fruit trees are growing finely, and stringe to say, he has never been bothered by pests or insects. Mr. Mc Kinley is thinking of experimenting with blackherry vines, and we have no doubt that he will be successful ". Napa Register.

#### ANOTHER FOOT-HILL FARM.

Less than two years ago Mr. H. P. Ford took up a piece of school hand on Chico creek, some sixteen miles above Chico, and began to make a home. In connection with a stock range he set to work to have a garden and prepare for an orchard. Last Spring he opened a spring whose waters came cozing out from the hillside, and now has a finsh strenm of water flowing by his house, enough to irrigute a large garden. His melons last Simmer astonished some of our town poople who were favored with specimens of them. And now we have in our office a specimen of evergreen millet grown on the place, which is upwards of seven feet high and headed out in full. The general crop which has not gone to head is now ready to cut for hay. The millet has grown and suckered out astonishingly, and stock eat it eagerly.

Here is another illustration of the possibility of making good homes on little foot-hill ranches. It is not in the amount of space one occupies, but the use which is made of it-the productions which can be grown. When every comfort and luxury can be gathered about one's home within the space of a few acres, is it not better than broad acres of a large ranch with neither comfort nor luxury, strictly speaking, to be kad for either labor or money? Home home- a home with life's beauties and earth's good fruits surrounding it. Muy the duy come speedily when our foot-hill country shall be taken up and applied to such homes as it is capable of making .- Chico Enterprise.

### GOOD RESULTS.

A. J. Twogood, of Riverside, during the past season netted \$3,000 from an orange orchard of six acres, and Cover & McCoy sold their crops on the trees from a six-scre orchard that had not yet come into full hearing for \$1,950 and afterwards sold their place of twenty acres, set to oranges, apricots, grapes etc., for \$19,000. The purchasers expect to clear this season twenty per cent, on their invest-ment. Raison vineyards netted their owners all the ment. Haisin vineyards netted their owners at the way from \$100 to \$300 per nere, and in some cases as high as \$500 worth of raisins have been sold from a single sere. The following gentlemen can be referred to, if necessary in connection with this raisia business, viz. Wr. Cutter, tweet & Noroross, J. G. North, A. P. Combs and others of Riverside. The older settlers in this section of the Bata appear to layer, the mest, confidence in the resources. pear to have the most confidence in its resources and most readily pay good prices for land,—Riner.

### AN ARTESIAN WELL

The Napa Reporter says that a well sunk on the tule land a few miles below Napa, a few years ago, struck a flowing stream of water rising two feet above the ground. The water is pure and sweet. Wonder if the same thing could not be done on the tule land about Suisun?-Solumi Republican.

#### CEMENT DEPOSITS.

A writer in the Daily Chronicle of this city says: It may not be generally known that there are large deposits of coment in California in the immediate vicinity of railroads, which could be turned into sources of great wealth, if it satisfactory process of burning it could be discovered. A few years ago a company andertook the manufacture of cement. They seenred a large depusit of the mineral near the town of Santa Cruz and erected works, spending in all about \$75,000; but the material which they manufactured was not of a satisfactory quality, there being some practical difficulties concerning the burning of the rock, which in its chemical composition differs slightly from that found in the East. The company was finally compelled to cease working and since then no effort has been made to turn these valuable deposits to account. Experiments, however, are still being carried on, and these have demonstrated that first-class cement can he made out of the Santa Cruz rock. A member of a milling firm in this city, who is deeply interested in the matter, recently burned some of the rock in the grate of his office. Unfortanately, he did not watch it closely enough to notice the exact conditions number which the proces was conducted, for when he tried the product afterwards, he found that he made a superior article of cement, which hardened readily under water. Since then he has vainly attempted to repent the experiment.

#### A GOOD WORK.

The American Forestry Congress has just closed another important session at their annual Congress, which was held this year at St. Paul, Minnesota. The cheering news was given to the Congress by the President, Hou. George B. Loring, of Massachusetts, that by the agitation of the subject of forest culture for a few years past a great work was going on in the land in restoring a portion of the conntry back to forests. So netive is this work in New York, Ohio, Maine and many of the northern States that the area of forests was absolutely increasing, and the good work kept going right onward. In Las Angeles there has not been as much attention paid to forest culture during the past year as there should have been, but we discover a little more interest being nwakened during 1883. Judge Ronney, of Florence, we observe, has 200,000 enculyptus trees that he is preparing for forest nses. With his grand flowing well of 50 inches, the Judge con plant this kind of a tree nt any period of the summer, and we hope that he will set his neighbors an example by planting a beautiful grove of this most valuable tree. There should be a million of these trees planted during this year in the county. All the county rombs should be lined with this rapidly growing and becaufful tree. What farmer will start the ball first. -Los langues

### QUARTZ IS THE THING.

The Forest City Tribune says: The promise is now that a new era in quartz mining interests is about downing for Sierra county. In every direction men are now smiting the jutting rocks of the mountains, and delving beneath the red surface, scanning each good looking lump of quartz, to find continuations of the rich veius which are now being worked and have been worked in the past. In all parts of the county prospectors continue to develop eroppings. Quartz is the thing. It is more substantial than any other character of mining. A quartz ledge in Sierra county, having once proven good, has never, we believe, given ont if properly followed.

### A GOOD PURCHASE.

Last year T. C. Barnes of Nelson, purchased a tract of land, already summer-fullowed, for \$26 an acre. Four acres of it he plowed and applied to other uses. On six acres ho cut hay, which brought him \$210, or \$10 per sero. From the remaining 70 acres he has this season harvested 1,391 sacks of wheat, averaging 135 pounds to the snek, which he has just sold at \$1.15 per centul. At this rate the hand pays for itself the first year, with a surplus of \$832. This, without taking expenses into account. With such figures for this year, we are not surprised to be told that the price of the hand advances from \$26 to \$40 or more in a your with the tembercy still upward -Chim Enter-

O. P. SHEFFIELD. J. PATTERSON. N. W. SPAULDING.

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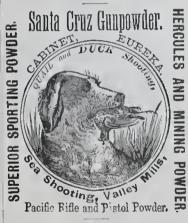
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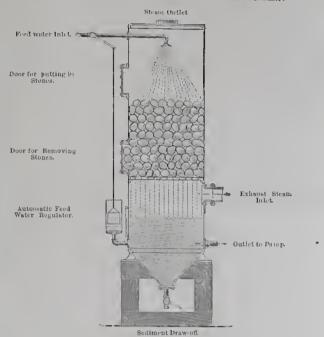
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## SMALL FARMS IN THE MAJORITY.

The day for farming on a large scale in Napa county has passed by, there being only a few ranches in cultivation that will comprise a section of land in arm. In Herryessa valley there are fow forms of large extent, but as a value subdivision of tracts is non-the order of the day. There are 268 holdings in the country ranging from 400 to 600 acres in extent, but these are clindly grazing monve tain hands, not susceptible to cereal production, al-though some portions may be adapted to rineyard purposes. The division of lands is shown in the fact that in 1880 the county, while by the report of the County Assessor, just rendered, there are now 1773. This is an increase of menty one hundred per cent in three years. How this subdivision of the land affects its value may be seen at a glance by the following figures: Of the hard which is inby the following figures: 0) the fund which is in-cluded in tracts of less than 10 acres the average assessed value is \$84.81 per mere; over 40 and under 60, \$35.96; over 60 and under 100, \$25.81; over 100 and under 160, \$11.89; over 160 and under 210, \$14.-44; over 240 and rather 320, 89,48. Land which 44; over 240 and under 320, 89.48. Land which is subdivided into small tracts is generally planted in orchards and vineyards, and the great resulting increase in value goes to swell the uggregate wealth and prosperity of the State.—Napa Remortes

### A RICH STRIKE OF SILVER ORE.

The signs are encouraging for opening silver mines near Calistogy of considerable richness, and Mr. Multer, of the Calistogian, has held to the helief for years that paying argentiferous ores would be struck in the mountains on the east side of the valley, where prospecting has been going on for quite a length of time. He gives the following account of a rich strike made in King, carryon a few days ago. It was made in the shaft near the greek of Old Discovery ground, work in this shaft having been corried on during several weeks, past. Here the Palisade wein has bren cut at a depth of wenty feet or more, molvery rich ran, and identy of it, found. This makes the second vent of good ore found in the Old Discovery claim, and the last one thus opened seems to be even richer than the other one in which work has been progressing secretal months jost, and who hadone is enough for any name. The last strike, however, greatly mereases the value of this property which will are long, in our hundle aquiion, surpass any silver mine heretefore opened in California. It is, indeed, almost a bonanza. If any two men have bright prospects for wealth, it is Grisby & Johnson, sale corners of the property, -Napa Reporter.

#### A VALUABLE MINE.

A correspondent of the Mining Record of this city, writing from Annador county, recently, thus speaks of one of the great minso of that

The Plymouth Consolidated owns two mills, one of eighty stamps and one of forty stamps or 120 stamps in all, and has the best plant on the coast. The mills are in first-class condition, equipped with Frue concentrators, and everything needful to successful and economical work. There are three shafts, one recently constructed, and to be the finest in California. It is perfectly vertical, with three compartments and splendidly tunbered. It is 1,400 feet in depth. The mine is fully query and alde to keep its entire mills at work. The first dividend was declared in June, \$50,000, and the second is near payable of smular mount, being lifty cents per shore on the capital stock After paying this dividend, the company have on hand a supply of over \$100,000 rash. The rock is a ribbon quartz, running twelve to sixteen dollars per tou, and the one loady is very

#### SIERRA COUNTY.

Now, there is no letter heality in the world for people to invest their money in opartz than this rounty. There is as favorable a geological formation for rich deposits as in any other place under the sun. There are bolts of serpentine, granite and lamestone like great rils of the earth, so to say, and resting against and in the vientity of these helts are the most forwalds localities for nely deposits to be found, according to all theory rick deposits to be round, neavoning or an arrow and experience. What is irvanted are practical array to go show, start with an irrasta or a small rhenje mill; they run be had those times. Find reliction you have a paying helge on the most inexpensive plan, and if you have a good property you will find moger purchasers, for there is plenty of will molynger purchasers, for there is planty in which money holder; or knop the mine and put on more extended and expensive machinery your-solves, and depend upon it, the dult times that have so long here felt in the past four years will rands like mist in the morning from old Suerra county. Distributelle Messcaper.

### CONCERNING SMALL FARMS

We are pleased to see that the advocacy of small farms is low-uning popular with the press and posple. Commenting on the probable benefits to result from the subdivision and sale of Central Paci-ic Rullroad lands, the Oakland Times says

We are told that many sins are upon the heads of milroad men. If they hold their grants subject to sale in small tracts to actual settless they will prove to have been tristees id the State's future process in many near triggers a thin year all opposed will prove to have been a deposit of lands beyond the reach of the large holders to be produced at last the reach of the large holders to be produced at last for the home milking purposes of a great rural population. Allowerthe State are lands laying a semit, unconsidered and profitless, which in the hands of an Eastern population and under such a sky as ours rould be ragerly sought and put at pro-ducing to support happy homestrads. If the rail-graph are obtaining the property roads are determined to do what they can to dones-ticate here this American system of small farming as against the unhappy English system of grout estates, let every citizen do what is in him to help the policy along. Under the small furning system there would be good lunches of cottle and logs on every form and poultry galore, all of a thealthy and far fitter for food because it would be in small lots and would get better and kindlier attention.—Sinrantento Bee.

### A COMPETENCY QUICKLY ACQUIRED.

In the spring of 1880 Mr. W. S. Cunninghum arrived at Lemoure and purchased 21 acres of hind one mile north of that place at 830 per acre. Having but 8500 in all he was compelled to give a note and mortgage for 8250 of the purchase price. paying interest at 18 per cent per annum. He had no team and not so much as a cheeken in the way of stock for his ranch. The possessed a thorough husmoss training, identy of native grit, and wwife who, though entirely mused to that kind of life, could roll up her shoves, make fatter, ruse chirkens and preserve fruits. This worthy couple have poid for their land, have just completed one of the sungerst little cottages in the county, at an ex-pense of \$1100; have purchased \$600 worth of fur-niture for it; have fenced the land and cross fenced it with a substantial board fence; have fully \$500 worth of live stock on the place, and an orchard of 700 trees just coming into bearing. It is every what paid fur, too, and they have some money be sides. To be sure it has not all been made off from the furm, though most of it has. Mr. C. worked upon the construction of canals and ditches during a portion of the first year at 850 per mouth and he has made something out of a missery with which he has been connected, but his principal source of income is fifteen across of alfalfa and the stock it feeds.—Tuture Register,

#### WE MOVE.

Remote as Santa Barlown is from railroad communication and rapid transit, this county is progressing if a rapid rate. Lind is being sidd at prices which five years ago would have been considered preposturously high. The population is steadily increasing and the beauty about the increase is, it is of a class which brings wealth, in-dustry and refinement with it. (Our large "ran chos" are being subdivided and sold off into small farms more rapidly thun in any other county in the State except Los Angeles. Large dairy interests are being huit up in the hitherto considered inaccossible Sisquae region. The more affluent residents are suporting the finest of live stock into the county at great cost, and insprovements are seen in all directions. Sunta Buchara is on the rerge of a "boun," Not a feverish fictitious rise in values but a substantial bussing forth into fall Idmon of the latherte demonst resources of this wegion haretoform so little known to the outside world. Santa Bircharu Priss.

#### WINE GRAPES.

The Roisling is a heavy honor, but requires at locst fire foot stakes mid by priming. The same runner of priming is being followed with success in some instances with the Chasselos. The Chasselas Fortaineddean is also a good graps, but the object-Fridamsingan is some a good grape, not see correction to that is that it suckers badly. Crabb's Black Binguidy, as a claret grape, probably surpasses the Zinfandel in the quantity of wine, but we not so prolific, nor has a been so generally tried. In Napa Valley, however, it seems to be exceedingly and a six for constant and the large state of the second property o Napa Valley, however, it seems to do exceedingly well, and is becoming very popular. In the southern portion of the State there is a wonderful run on Sultana, far beyond the weins of supply. It is oung to the fact that the Sultana has been found to make a good white wine, and is also in good randing rupe. Lost year Mr. Blowers sold all his cuttings at a good lighter and could have sold long times as mony had be had them. The same is true of Mr. Crabb. The cuttings we high and hard to get, +Cir. S. F. Bulleton.

Subscribe for The Resources of California

#### WHAT IS AND SHOULD BE.

California takinjoying in new era of prosperity, and the lide of congration that is pouring into the State rethe the of emigration that is pouring into the State ro-minds one of the steady dow in this direction in the golden days of '49. Les Angeles is not alone in her preaperity. It is general to almost every direction throughout the State. Outland is growing steadily and healthfully, wheely building up manufactures and home industries in her midst, which shall afford accupation industries in her middt, which shall afford accupation and means of hyellhood to those who come to settle in her middt. It is estimated that the population of Oakland turcensed at least five thousand last year, and that San Francisco grew in the same proportion. People at the East are restless as never before. They are tred of the elimatic severilles and atmospheric disturbances known to the wide extent of territory beyond the Poelle Slope. The terrible storms which have recently oc-curred in various paris of the country have turned the attention of a great many benchmary indifferent to this region in the direction of the Golden State. A letter just received by the Times from Nebraska voices the general sense of uncasiness that is felt in the Statas that have been in the track of the terrible cyclines had have wrought such devastation along their path. The writer says: "We five its alots of constant terror The writer says. "We five it a state of constant terror and dread of termadoes. Every black and threatening cloud is the signal for alarm. We have several times then refige to our color when the church stillers and the approach of a storm of musual severily, and remained three overpowered by a sense of our helplessness in the case of a severe wind-storm striking us. We are thinking about California, A country not habie to be visited by faces destructive cyclones seems to us like a garathee."

Such people want information relative to soil, oroduction, stock raising, climate, irrigation, labor-de-mand, markets, timber, manufactures, cost of living mand, markets, timber, manufactures, cost of Hving, price of lands, etc. They want to know something of the different localities of the Stote, and what each has to offer. Perhaps about no section of this great State does there center at the cast so much of romantic interest as about the orange groves and vineyards of Los Angelea. To the young men and woman of the Allantic States it is the hand of romance and positive where analy facilities orange theory they men of the Allantic States it is the land of romance and poetry, where, antil fadelyss orange bloom, they would love to make their bonic. To the invalid it is the land of eternal summer, where and bufailing singular and balmy breezes they shall find heelib and healing. To the main of business, it has region of active enterprise and of possible successful achievements, where capital roay be readily invested and restricts a large percentage of profit. To the agriculturial it is a region where no long winter comes to consume the fruits of the summer's labor. To the poor man, with a family to support, at its a constrict where a large with a tamily to support, it is a country where a large share of his bard-earned means will not have to be con-sumed in the purchase of their to keep the little ones sumed in the purchase of the to keep the lift ones. From freezing, leasening materially the sum which remains for the purchase of other necessaries and control of life. To the emphasis it is a section where real estale is active, investments safe and profitable and golden fortunes in the fulure. The man of case and height ace in it is apply where existence is attractive—where all the climatic conditions tend to confort and -where all the climatic conditions tend to conform and cherefulness. Each of those classes fluds in this por-tion of Southern California the attractions that they most desire, and here the conditions exist that will be astickfung to them all. We only need more concrited action in making known these important facts to bring in hundreds of all these classes to settle in our miles. In hundress of all these classes to settle to our initist. Los Aogeles county should wake up fully to the fact that it would be before for its individually, better for the community and the State at large 10 diminish the number of our vast minition, and curtail the immensity of our wheat crops and stock herds, and do what we can to turn in this direction, even more largely than now, the tide of immigration; to increase the number of conventil terms of control terms of the control terms of the control terms. of our small farins; to develop new industries, and lo give more attention to the culture of all the most val-uable and profitable productions for which our climate unlife and profitable productions for which our climate and soil are so peculiarly adapted. In place of isolated ranch honese we want hundreds of intelligent and happy homes dotting our vaileys and billsides, and in the place of importations we want our manufacturies, with all their accompanying helps to growth and a larger prospectly. Every legitlinate means of advortising should be made use of. Send home-papers abroad. Let your letters to the East convey intelligent statements in regard to all the varied interests, resources and industries of the section, and in addition let ins work and place increased in the distribution of the agricultural and fruil interests this district. The unanswerable logic of results will convince the most skeptical of the truthfulness of all that we claim for Southern California.—Les Angeles Mirror. Angeles Mirror.

## PLANTING TEN ACRES FOR THE HOME.

An experienced borliculturist writes to the Rural Californian un follows:

An experienced borientimist writes to the Rard Californian as follows:

Just for home use, an acre or two should be planted to a miscollament assortment of best varied is of fruit free and small fruits. I wind say 05 applicatives, two-thirds winter variables; 25 pear, of varieties dipering in ancession, 50 peach, commoneing with the carliest and enting with the latest, 10 cack of needstring prime, apricot and fig. 6 English walnut, 6 Italian chestunt, 10 budded urang, 6 budded from 2. Time; one-fourth serie to blackborry, racpierry, currents and alraw-borries, ruoted grapes for the table, carefully selecting the best varieties; also a few dozen seconds for profit I would plant the remaining eight acres to Buyal and large Carly apricot, two and one-fourith acres to Bartlett and Winter Nellia pears, principally Bartlett, one acro of heat canning varieties of peach; one arro to French and Hungarian grunes, about equally divided, and as given to best budded varieties of orange and leman, two-thirds orange. Without entering into the argumentative merits of the above, I bed eve those who plant should as thus Indicated, will have no cause for regret.

#### A GROWING SETTLEMENT.

We take the following extract from a letter written by a resident of Redhands, a new aethlement in San Bernardino county, to the Rivershie Pren and Hardical-

fivide.

Note the summer begon, perhaps a key flems regarding the general run of affairs may be of inherest to all least a portion of your realers. During the last aging about 160,000 rubbin grape vines, also many thousand urange and decidious trees, were planted here, seven-eights of which are doing linely and making as good growth as could be expected. Grasshoppers, which are a post in so many localities, and which we were troubled with to some extent last season, have worked no injury to the settlement this year, with the exception of some half dozen places on the outsiders. Had we known as much about this matter tire en units. Had we know as much about this matter three unorths ago, as we do now, no one would have reason to complain. Finnes for irrigating are ast conting tulogeneral uso, any other kind of dileth being considered as morely temporary, and a useless expense. Without thames water is unnecessarily run to waste, and much llatines water is unaversearily rule to waste, and inded more time and laber, which mean money, are required to do the work. There are now some twenty-six houses in Kedlands, besides barns, shells, etc., and more buildings will be creeted the onsuing tall and winter. Our population exceeds over 100 actual residents, and we are fast getting into the ways of an old well established

Our water system works finely and we have feason to think that with ditches from the earlyons, paved with stone and lined with coment, conducting the water to a main reservoir, from thence bringing it in concrete pipes to the highest corner of cools led, and along the border of the latter in a redwood fluran 10 the head of each row of trees and vines, the perfection of irrigation is nearly reached.

At the n w reliroad station, distant  $V_{ij}$  ralles, all

At the n w railroad station, distant 1'; inlies, all ireins stop on bring flagged, or on notice to conductor. A platform has been built, and a depot building will follow in due course of time.

The works of the Lugonia Fruit Parking Company are located eear by, and a large amount of fruit will be bandled the present season. There seems to be a general disposition in the neighborhood to do what can be crail disposition in the mugnormood to de what can be done to add this ruterprise, even to the extent of selling fruit at lower rates than those offered by the Colion cannery. This is precisely as it should be. Encourage these who will spend their motive; in your own section—The idea prevails that observes can be grown with us.

The idea prevails that eberfire can be grown with us, and quite a number of trees have been ordered for most season's planting. The writer is inclined to blink the experiment will prove successful. At Critton, this season, a tree, the only one libere, was loaded with fine fruit, and for some years delicious cherries bave been brought to market from the Vicaiba hills. This tree needes dry situation. Downing, in bis valuable work published traits on the Vicaiba hills. entitled "Fruits and Fruit Trees of America," especially emphasizes this fact,) and it likes a billy country. Let us hope it may be added to our list of choice fruits.

A few thousand Seedless Sullans vines have been A few thousand Seedless Sullam wines have been planted here. Recently in looking through the vine-yards in the adjacent settlements, the writer noted, in one instance, Muscale badly blighted, while the Sullans, pruned on the long came system, were loaded with large, well filled bunches. The two kinds were side by paying the same treatment. Whether it will pay to plant the Sulfanas largely, however, is yet an open question. Thus far they seem well adapted to the Sauthern country. Soulbern comptry.

Southern country.

The few plant trees sel out are not old crough to bear. Public opinion in Southern California seems to be against the cultivation of little fruit, which, perhaps, has not been theroughly tested. In the immediate neighborhood, Green Gages are in full bearing, and some trees within like writer's knowledge have been good productry for many years. The tree should not be discovered the agree of which the like hear we were in the proof within the like hear we were the selection of the like hear we were the like hear we were the selection of the like hear we were the like hear we w some trees within life writer's knowledge have been good product rs for many years. The tree should not be discarded became some of ortlain kinds fall to bear, as the Grman pruce, for tastace, until it has had a lifering hital. Probably peaches and necratices do better in no part of the State than furtho adjoining selfioment of Lugonia, yet we can name varioties of both that never have, and probably urver will yield enough to senter the part of plantage. pay for planting.

#### THE PLACE FOR A POOR BIAN

The Santa Ana Standard, in discussing the question as in whether California is the place for a poor man, very aensibly and frutbfully says

aensibly and frationing says.

Many people persist fo saying that this is no country for a poor many that had set on high and work is not to be bad, etc. It is from that in poor main cannot come here, buy twenty acres of land, plant it out to fruit reos and well until they bear wilhout getting burgry, but the noor man who comes here expecting to work, as he has to in every country under the sun, can slways find plenty to do, whether he be a mechanic or farm labore, and at wages considerly in advance of those paid in the Eastern States. Our fruit fermers often find it very difficult to get laborers, and the prospects are that, ow-ing to the increased domaid, they will be more than usually acaree this fall.

#### HULLDING IN STOCKTON.

The following to from the Board of Trade Report by

The following to from the Board of Trade Report by its Secretary, N. M. OrrDuring the year 1882 one hundred and sixly dwellings were erected in the city limits, ranging in cost from Santo 18,000. Most of these homes were created by persons who intend to occupy them, and make Stockton their permanent residence, and the larger portion were sent as cost from \$1,000 to \$1,000. During the year several large buildings for husbross purposes were excepted and the automate root of all the large while. year acceptal large buildings for hushness purposes were creeked, and the neggregate root of all the new hubblings and improvements completed during the past year exceeded \$600,000. Heveral large buildings are in progress or projected this year, and unmerous dwellings favo here or see to be constructed, and the prospecting goal that the tempovements in this direction will be as large for 1883 as for the previous year.



BROAD GAUGE.

### TIME TABLE.

Commencing Monday, Sept. 3, 1883, And multi further notice, Passenger Trains will have from, and arrive at San Francisco Passenger Depot (fownseml St., between 3d and 4th streets) as follows:

R F.	DESTINATION.	h F.
8540 A. M 1 0 30 A. M 1 0 30 P. M * 3 30 P. M 4 27 P. M * 5 .15 P. M. B210 P. M 211 45 P. M	smi Mento Park	6:40 A. IX. 8:10 A. M. 9:00 A. M. 1:10:02 A. M. 1:336 P. M. 1:4:50 P. M. 6:111 P. M. 1:7:50 P. M.
8 30 A. M. 10:30 A. M. 4 8:30 P. M. 4:25 P. M	Sunia Chru, San Jose and, Principul Way Stations,.	0:03 A, M, 0:10:02 A, M, 14:3:36 P, M, 6:00 P M, 1:8:15 P M.
10:40 A 31.	Gilroy, Pajaro, Castroville, Salimas and Monterey	6 110 P. M.
10 40 A M. 4 3,30 P M.	.Hollister and Tres Pinos	6:00 P. W.
10:40 A. M. 4 3:30 P. M.	Walsonville, Camp Goodsti, Aptos, New Brighton, Sequel (Camp Capitola) and Santa Cruz	*10:02 A. M. 6:00 P. M.
10:40 A. M.   1	Solcitad and Way Stations	6:00 P. M.
† 7:30 A. M.	Monterey and Senta Cruz (Sunday Eleursion)	t 8:48 F. M.

\*Sundays excepted. ISandays only. ITbesire train, Saturdays only.

Stage connections are made with the 10:40 A. M. Train, except Piscabeno Stages via San Mateu, and Pacific Commess Surner Stage via Santa Clara, which connect with 8:30 A. M. Train.

Commerse Strings Sings of a same Casa, which concet with \$20 A.M. Train.

SPECIAL ROUND-TRIP TICKETS At Reduced Rutes—to Percenters, Aptos, Sequed and Santa Cruz; also, to Gilroy, Paraiso and Paso Robles Springs.

EXCURSION TICKETS—Sold Salunday and Sunday and Sunday—good to return on Munday—to Santa Claro or San Jore, \$2.50; to Gilroy, \$4.00; to Montarry or Santa Cruz, \$5.00; and to principal points between San Francisco and San Jose; also to Gilroy Hot Springs, \$5.00; SUNDAY EXCURSION TICKETS—To efficit Monierty or Santa Cruz, and return, \$1.00.

TICKET OFFICES—Passenger Depot, Townsend street and No. 61t Morket street, under Grand Holis,

A. C. BASSETT. H. R. JUDAH,

Superintendent,

SPENDTHERN DIVISIONS, \$52.

For points on Southern Divisions and the East, see

For points on Southern Divisions and the East, see C. P. R. R. TIME SCHEDULE.

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OCEANIC Tuesday, December 18th,
184
ARABIC Thursday, February 7th,
OCEANIC Saturday, March 8th,
ARABIC Saturday, April 28th,
OCEANIC Tuesday, May 27th, Excursion Tickets to Yokoluma and Re-

turn at Reduced Rates. Osbin plans on exhibition and passage tickets for sale at C. P. R. R. Co.'s Gemeral Offices, Room 71, Corner Fourth and Townsend Streets.

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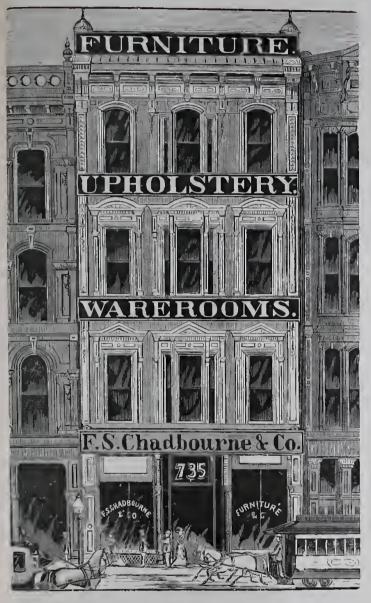
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# TWO AGRICULTURAL SYSTEMS IN CONTRAST,

As late as 1870 the southern half of California, of that part south of Monterey hay, was in a very primilive condition. The only town of any nute was Lo 
Angeles, which was essentially a Mexican or unitive Calfornian town, many of the features of which are stil 
preserved. There were other small lowers along the 
coast, such as San Diego, Santa Barbara, San LuiOllispo and the old fown of Monterey, the latter the 
most neglected and less flourishing of all. This
journal in a series of articles, written a little latter 
called attention to the vaccilent elimate and compare 
tive cheapness of lambs in Southern California. The 
fact was pointed out that all this induces area was 
within the sant terms. called attention to a tree the appear of the cheapness of lambs in Southern California tree was notinted out that all this innuces area was within the semi-tropical helt, where the orange, the fillemon and olive would come to the greatest perfection that the company of the co lemon and olive would come to the greatest perfection.
Hero and there wero small orange orchards, and the Mission grape was grown in a few places. But these fruits made no figure in the products of this country. They were of importance because they furnished a satisfactory demonstration of the theory that nearly all semi-tropical fruits would dourish in the southern hal of this State.

At that time this vast area was overral. At the time time tast area was overran, with no cattle, with, broad-horned scrules, and mustaing hor The primilive system of cattle raising had only a ure. No hay or grain was proof those cultie. If a dry m mote relation to agriculture. No hay or grait was preduced for the sustruance of these cultie. If a dry susual, followed by a cold, wet whiter occurred, the cattle died by thousands. We have seen large berds of staving eatite offered at a dollar and a haif a head, the being about the value of the hidrs, while the careasse stripped off the hidrs were of no value. Horses were of less value, the hidrs not paying for removal. Her and there a large cattle owner, who occupied a Mexica crant, with bedenith benefities. mole relation to agriculture and there a large cattle owner, who occupied a Mexicas grant with Indefinite boundaries, was lin a tolerabily prosperous condition. He did little or nothing to improve the country. His cattle and horses were for the most part serula. He encouraged no neightforthoogrowth, and did not look with any favor upon the settler who underlook to create a homestead out of a few acres, and to live by a system of agriculture and horticulture in direct contrast with the system of industry adopted by the cattle lord. In fact, there was little which neight be called industry about the latter system. So long as this system is reasoned. system. So long as this system provailed there little growth in Southern California. The towns little growth in Southern California. The towns we fow, and for the most part exhibited a primitive co dition of squalor and neglect. The real industrial d velopment and increase of population was north the Buy of Montercy, as late as 1870, and for three three years thereafter

About that lime this journal collected from various sources a large amount of accurate data hearing on the natural resources of this half of the State. These articles attracted attention a long distance from here. The weekly issue of the Bulletin is read to every Stati in the Union, and in all the great industrial centers of Europe. The tide of inmigration began to set towards. Southern California. The first immigration to the towards Southern California. The first immigrates did not find the conditions of the country much to their minus likely were ferced to create a system in illrect contrast with that which prevailed. It was a dry country, and a year of drought, a very destinct one. Many of these early lumigrants were discouraged and turned was from the country. away from the country. Some of the local paper catching the new spiril of progress, described t country in exaggerated terms, and these description led to still further disappointment on the part of in migrants. But some of the more resolute ones, bavin once camped down were determined to remain and se what could be done. They made many mistakes. They encountered imperfect land titles, not unfrequently the hostlity of the large eathle owners, who althered tenaclously to a primitive systom essentially coarse, barbarous and improvident. There was nothing in that system for the future prosperity of California The new system, which was just baving its inception involved the gradual declination of the old one. It is not clean gone yet. But the wiid, long-horned cattle which were once driven up to market from Southern California, and the muslang bornes are no longer seen California, and the mustaing borses are no longer soon on the reads. Nor does the cirry, tough beef of the former any longer make a figure in this market. That system of eatile growing has been croweded back to New Micrico, and to a few of the watered valleys in Arizona. It is not wholly exilinct yet in California; but it is as markly gone that it is associated with the past as much as a crumbling adobe hamlet which has been half deserted.

Some of the results of the new system of industrial development are now seen in the flourishing settlements of Riversido, Ontario, Passalona, Pomona, Orange, Ana-belm and Saula Ana-in the orchanis and rineyards, the beautiful homesteads, the fine and attractive communities which have grown up in that part of the Stain. In a large sense the new blood and muscle, brain and entiture have redecined Southern California from its stagnation, incrinoss and desolation. It is true it has not accomplished all this exclusively. Trouds have had an important indicate. Yet if system of eattle ranching industry were now prant, there would be little business for a ratio mant, there would be little business for a radroad, and small encouragement to construct one. The fact of greatest significence is that within the last often years a new element, or many new ones, went into Southers California. They took with them new tradillous monther system of industry, and they have made a most remarkable demonstration of its success. There never vere two systems of industry in more striking contrast than the old cattle ranching one new gaing out and the new fruit-growing one now fairly established. The order one could do nothing in the vary of encouraging the growth of town or hamlet. It did nothing for schools, for the improvement of highways, nor for growth in any direction. The fact of growth in any direction.

country, such varied products and so few people, it is all the more necessary that we take ample time to prepare. Some of our Baards of Trade and Chambers of Commerce inflight well open the hall for this month—the season of fairs—and invite the formation of sucleties in overy country of the Stale to arrange for mach section heigh representationed to select a Sinte budy to bring about the desired result—an ample, to-rilling and representative exhibit for Culifornie. It might be well, indeed, for the State Agricultural Buard to take the initialize in this matter, and rail upon like representative horizontal in mile with it in plans of organization for the event. It only needs that the ball be set in motion, for we are confident that the ball be set in motion, for we are confident that the people of the Stale with at a glance, and ze the value of the New Orleans Exposition to Culifornia if we but improve the opportunities if offers—Sacramente Remedication.

#### THE OIL TRADE.

The oil trails of California promises to attem gigantic proportions in the course of a few years. The development of new wells in Southern California is proceeding at a rapid rate, and so valuable is the oil irrellory that a partirular toration in one case has been guarded by force of arms. A pipe line of leventy-fire initial length is being constructed to carry the oil to purt, and we may soon note sebonners headed with oil arriving as regularly as those londed with lumber. Some hellow that we will some day relipse Ponnsylvania, but without going so far, we have good reason to expect that we will stand at least secund in the world. The production for 1882 martly equaled five million dollars. The comparative production for a series of years has been as follows:

																													Gallous, 508,800
1880			ı		ı			ı			á	,						,		×					ı				1,763,215
1881		 118			4	4	ı	4	ı	ı	ı	ı	ı	ı	ı		ı	ı	ı		ı	ı	ı		ı	ı	ı	ı	4,194,102
1892	,			,		,			ì										ì			ì				ì	i		4,903,920

What the production will be this year we have no urrains of knowing, but we have no doubt that it will show a very large increase. When we can once get the oil out and reithe it, we will have markets all along the Pacific, from Behring straits to Cape Horn and to Hollagion.

In fact there is bardly a limit to the demands that we may be called to 011, for oil for illiminating jurposes, Bull lighting purposes is not the only thing for which it can be made available. It has been used as furl, and with rome this much general use for ateam-producing jurposes, it has been principally found in Los Angeles, Sabla Clara and Ventura conuties. Seepe has been one of the Irading coulers. It is expected, ore long, that a thomsand barrils a day will be produced and libts can be sucressed almost suddiniely.

The consumption of coal itself on this coast has been very large for many years, and has rejulted a large supply from the East to keep it up. The distribution of oil for several years may be given as follows:

																														Gallons.	
1883	·										·	è		ı	ı		ų					_								3,943,350	
1881	·										i	i	ï	ı	ı	,				į.			ì			ì				4,317,740	
1880	ŧ								ı		ı			ä			ı	į.			ï			i			i	i	.:	2,000,000	
1879		ă.						ă.					ı	ü				ı						ì	i			ì		2,682,220	
1378									_					ı	ı		ü		ı										1	3,344,931	
1877		٠			4									ų			ı									4				2,995,941	

The distribution here does not mean consumption, it simply means what has been sold from San Francisco in a year. Besides this, about hist a million gations have been received yearly overland at Sacramento chiefly, while Southern California has been supplied in great part from the oil wells of this section. The annual consumption in California, Oregon and Washington toxy be averaged at four millions a year. It is rapidly increasing

The business of the coast to in the hands of a few bouses—one of which has sold as much as Iwo millions and a quarter gallions in a year. This year the Standard Oil Company has huperied very heavily, as also have several private firms, so that up to August let, about 165,000 cases of Eastern have come to head, white the price has been put down to 14 cents for 150 degs test. How long this now may last no one knows. The end of it will probably be to settle more securely the condition of the Irade,—S. F. Journal of Commerce.

#### IMPROVE THE OPPORTUNITY,

One of our local capitalists, who has the reherewith to make his promise good, an horizes us to also that to make his promise good, an horizes us to also that he will take \$6,000 stock in a recolormill to be creled and put it operation at this place. We can reality count up treaty others residing here who could easily afford to lo blowings. They are all interested in the perpetuity of the town and its growth, as well as the disvelopment of its resources. Though comparatively untiformed upon the subject, we believe \$50,000 worth he aught empty and the products of which are the necessaries of lite and always limit a ready cash market. It is also one of lite best paying fudnativels proulled to litis coast, bring endered especially profitable by the natural resources. The harywith mill has recently declared a dividend of thirly per cant upon its capital shock for the last year! Think of it! Two and one-half per cent per moutbl. There is nothing of a visionary characterist under this proposition. It is practical in every sense of the word. And we would arge men of means to take hold of the matter al men, in earmost, and push it to a succasful termination. Don't be tible me man—who is not as well fixed as a dozen others living within five nilles of this office—be the only one in display the public spiril characteristic of a live, prosperous romunity. He means hustness. His name can be learned at the Herahi estabilishment. A woolen mill would give steady employment to from Iwonly to slaxly corsons the year round. That uncans at facrosses of that many hantles in our town. Their wages would aggregate from £10,000 to £30,000 per annum, four diffus of which would be put in circulation between the front.—Gridley Heraid.

#### CALAVERAS COUNTY

In speaking of the resources of this county a correspondent of the Ecke, published at Angels Camp, Calaveras county, says: It has breu the privilege of the undersigned to Iravel

It has been the privilege of the undersigned to travel to more than balf of the countles of the Slain. And he has noticed and compared critically the resources of the different localities, and show not hesitate to assert, without few of contradiction, that but very few of the countless her the same advantage is that Coloures does.

Clifforitial's reculving a larger number of permanent scillers thing ever before. Men who are in search of homes, and tribe are easierly booking for the heat advantages, and it helmoves the county press to point and our privileges and encourage the newtoners to localiamong ms.

In no rounly of the State ran improved farms be-buggline ching ins here. The land is good and reil produce all the grains, as well as cevry kind of frint. In tact the fruits of Calaverus and Tholman , are praised abservery lgo. It is line that this year, the April fruit healt roughly with us, but it will due the orchards good to get a rest once in 30 years. No comply to the State bas better insterlal, and in the unar future, didutes will have to be cultarged to supply the demand for the farms and orchards. While I concede all that is claimed for our mines, bold placer and qualit, and an satisfact that inter indicements can be uffeed to capitalists than in other places where the limits the capital is better poinced in and sunk for rec have good paytur utions that ran be worked so much changer, than in other healthes, on account of lisarresslinity as well as our silvantages of obean wood and abstudant water power; yet the perseverance and stibility of my county depends on its agricultural resources more than the best of indices. The richest mines of California and Nevalia are norked out to 25 or 30 years, and only leave a hole but the grained, while the farm and orchard with proper management is not only more valuable, but more refound; well meaned for the lapse of years.

Agriculture (in its meneral selso) and maintacturing need to be encouraged more and more, and it would be not be advantage of our business in a lift they realized this and gave life foremost interests more sympathy and recognized. A great ideal of government land has been taken up in the last few yer's but fiver to a great deal lift yet, the truth in rigard to it is nouth be unblished and actual settlers encouraged to come in and locale. The value of land will doubt in this county fusido of the unit five years, and by that time every quarter section, (except in the high Sterras) will be taken up. And many of our young men born and reared in this county who laugh at the dies of all our reared in this county who laugh at the dies of all our reared in this county will have to they trom the airen and stranger or "to West" young man. Such has been the bislery of every county in the Sinte where found now commands from one to five hundred doltars privace. For years General Vallejo offered the pick of his area. For grants from one to five dollars per acce. The same is true of all Southern California. El Dorado county similarly silinated as ours, and the same as regards ellumte, suff, etc., has so developed its orchards that a friend of induce has paid as high as eighteen dollars greated induced that of the proper of our county, or to the stranger who elects to come and settle within our borders.

#### PLACER MINES.

Placer mining in Southern California has always been successful, the first gold discovered in the State Inven-been found in Piru canyon, Ventura county, by a Meal cau, a few years before its discovery by Marsh all at Colocau, a tow years indoor (I silisovery by Marsh all at Oolo-na. We are now in receptly to I stor now in regard to more important placers. In the Soledad and Placer carryons, above Newball, the water is getting scarce, yet Mexi-cons, who are content with small returns, are parking the gold-invaring tilri in water, and making fuir mages. In the Sterra Pelou the water is sufficient in wash the In the Serra retourne want to opposit in washing richest dirt. He average soil being tracered for the ratuy season. The San Gabriel still is the scene of great to both placer inlutug and developing th The water is abundant, and, as is well known, not only ordinary plurer mining, but bydraulic nithing, is practical. Millions of stollars of precious metals have been taken from these deposits, as from the Pira, which is washed the relife year. This cany comprises a portion of what is known as the Tennis ranch, and is a portion of the Camulous property. T Palomas canyon, trar by, ia as rich as crir, but the claims are in the bands of it few men, who downlop them simply seconding to their needs. The Tejou and San Francisquite canyons, no other side of the Majave Sail Francisquite canyons, at other side in the Majaco describ, have been gild-bearing for many years, but ou aeronat of the difficulty of reaching them erre the mountains, and the lack of a base of supplies, the output is small, although a unimber of men are washing in each canyon the year round. The Cashoqui ranyon. received the Elizabeth Lake and worth of the monitatus, is quite profilable at most future, but its generally (clining) to this county, as most of the output goes in linkers faill, the most accessible town of huporlance. Built, these placers of importance, there are many which are only worked by one or two prespecture, and which have a slight yield imityidually, but which, in the aggregate, turn out a considerable amount of gold. placer in time are by no means a small farior in the out-put of protous inetal from Smithern California. In the winter senson, when there is an abundance of water, the influencian lately learned to save the stongubt," a merly impainable dust which limits on the surface of the water. The method adopted is quite shiple, consisting of a section fretra placed across the stream, so that the mater shall flow over each in surcression. These weles are constructed at piles and lim-her, with coarse groupy cloth severing the upper sale, in the rathy sensor, in a risk gold-hearing emyon, what is saved extra by the so treits is astimated in from 110 to 1.0 per work, according to the richness of dirtatory and the tetriber of redrs. It may ease I are very prefitable, as their cost as small. Every pla adder should use them, and then use the prefits. Auglets Bereich.

## THE EXPORTING OF MANUFACTURED PRODUCTS.

We find the following excellent article in a late (as

of the Funous Times:

No State can be truly and permanently prosperous
that exports its raw material to other countries to be manufactured and refurned, being compolled to pay a premium upon such imported commodities, in cour mann farthermain returned, being competed to pay a premium upon such imported commodities, in cour shipment to and from the place of manufacture, cost manufacinto, dallas, etc. Every locality rapuble of furnishing an abundance and a variety of products would not only retain thousands of delians in circulation among its cilizens, but would thousands more by experting its products in th furtured instead of the raw state. Employmen Employment would he given to hundreds of operatives, most of whe world build up homes and sald largely to the male; growth and prosperity of the country. Until within few years past little strenton was public manufact. ing inquestries in our State. A house market was to be had for taost of the productions of the country, and there were other channels for furestment and specultion whire, it was supposed, offered better indurements to rapidal than the relatifishment and operation of manufactories. Capitalists, however, began to realize to rapine that the relations and operation of manufactories. Capitalists, however, began to realize the fact that with the almost unitaritied possibilities of the State in the way of producting material of various kinds suitable for manufacture, there was nowhere a more haviting field for the employment of their money that in the operation of manufactures. Henry, to-day, California is marriage rapidly onward and upward to the large terms. take her place among the great manufactoring states of the Union, Capitalists are gaining roundened in this associate the paying industries of the Coast—one that is desitted to exert a greater influence in hullding up the Stale and developing its resources than the online products of all its urines, and possibly to at least equal its connected in importance hence our manufactures. are yearly bereasing, and, we are glind to sny, are generally reported pressure out. There is no roundy to the State that infers better bolicements to the man who bas money to invest the enterprises of this kind than does our own. The resources of loss Angeles county are but in the dawn of development, yet there so many manufactories and they all seem to be in a healthy, paying condition. The capabilities of the county are humanse, and this fact is now fully uslind county are immerse, and this feet is now fully usined by the monied men. Yet we ought from to force measurfactories in operation. Take the one article of sugar above, and we remirre the assertion that our entirity could not only supply all used of tor home consumption, but could, to addition, exports large-surplus, thus the amount of money 8 of our for this article would be hept at home and much more would be received for find which was exported. In the production of cour this county excels that of all other countries of the State. Land which is adapted to the growth of for will produce the sugar case. In fact, the growth of the latter has been thoroughly tested in this county and has given noore satisfactory results. Here is a field for the investment of capital that offers a rich barvest to him who first occupies it. Our own valley ought, brions a greating that of time shall have appead, in be the seat of one or more manufactories. In variety of producof one or more manufactories. In variety of produc tions no place can racel it, and yet the mainspring of its possibilities has scarcely yet been fouched. The es-lablishment of these imperiant factors of prespenty will cause the more rapid and complete development of

#### APRICO CS.

The Saula Clars Herald of recent date saut. San Jose apricots are evidently not norm begging this year it least. Several new drying establishments have been started up within a few days, and they are all buying fruit, which keeps the price of large and takes owners of apricel orcharbs feel happy. The caucing menhave been saying for a year or more that the button had dropped out of the apricot business, and that henceforth they would be a drug out the market. Probably they rould but for the driers. It takes a small furture to start a camera, but a few invulved olders will start ogelu line drying business. And the more on hooken this question of handling fruit lie more it ecous that drying with the the way in which the great bulk of our fruit must be prepared for market. The price of orebards in which most of the trees are apricated or orebards in which most of the trees are apricated by the sadvancing. Our gentleman from \$4.500 has advanced the price of orebards in which most of the trees are apricated by the sadvancing of the price of orebards in which most of the trees are apricated prices. The price of orebards in which into of the trees are apricated by the sadvancing of the price of orebards in which had only the sadvancing of the price of orebards in which had only the sadvancing of the price of orebards in which the last treek, and with uprice the sadvancing of the prices of the price of the prices of a prices of the prices of a prices of the prices of the prices of a prices of the prices of a prices of a price

#### DAIRY AND OTHER MATTERS.

Obnowe-making is rather a use subserved a little at rather A few of our dairy men har agreed a little at lention to it for some years, making a small immer, using most of them, and finding a tardy sale for the surplus, whiln other with awake darrymen have been firm the countletten that good obness could not be made here. The tirm of Dotta A aveguatine have treen for some years making 8n iss who so at their ranch in Last Chance, and have sharred constituate enterprise in shirping the same to tarreduce liter ranch in Last Chancey Trost, awaing the ranch from dy in longing to P. Windoull, makes a fine rather form dy in longing to P. Windoull, makes a fine article in Strike due see, while most of the Strike dury greens. William trues last entered increduce chose making than say of our Ance form darrymen. Beauting histrantion from a Misconsist Inctory, he has been for the past three sensors making some choose. He intured our links sensor, during the but wenther too chooses a day. The demand have great that his trouble is to keep his chose small properly cured. Our firm others in take all he can unkee, because having an Increasing home market,—Cor. Secret Falley Leader.



P. H. WENTWORTH, Editor and Proprietor,

#### SAN FRANCISCO, DECEMBER, 1883.

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veloped, although it was this portion of the Stale which the old Franciscan padres found so well sui-ted to their needs and purposes. Here all kinds of \$2 PER ANNUM.

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noted for their arcenting and annihilase restaingers. Los Angeles county is especially ferific, except on the samily waste in the northern part. There is a range of mountains moverable the centre of the county, and this region is well adapted to grazing and bee culture, an exceedingly pleasant out-door

huppy. "taking no thought for the morrow."

These podres tangin hospitality as a part of their religion, and some of that philosophy still remains, for it is a well known fact that the inhabitants are noted for their artention and kindness to strangers.

Los Angeles country to several the strangers. branches, irrigating the El Monte region. Los Angeles river, rising in the luvely San Fernando valley, furnishes water for domestic and irrigating purposes in the city of Los Angeles and neighboring phaces. The parties of land, however, lying southless not the mountains contains at the richest lands, is orange crows in in almost unbroken succession, from Orange, Analicim, Sanla Aus and Westminister to Los Angeles. The soil is a brown saindy loam, rich in vegetable matter, somewhat



RESIDENCE OF MRS. MARK HOPKINS, SAN FRANCISCO.

### LOS ANGELES COUNTY.

Its Climate-Productions-Exports-Poopla-Schools, Etc.

its Principal Cities and Towns, and their Industries, Described.

[By the Traveling Agent of The RESOURCES ]

In points of beauty, fertility, salubrity of climate and healthfulness, Los Angeles county stands pre-embrant in that section known as Bouthern Cali-fornia; a region whose resources are yet to be de-

experiments in the propagation of plants, however, and the adaptability of different growths and pursuits to the climate and soil begun by them, have all been ullized by their successors, although the users themselves may be slow to give credit and lonor to the pioneers who has gurated them. The effect of these missions, so early established, is not to be overlooked, for they christianized the Indians. effect of these missions, so early established, is not to be overlooked, for they christianized the Indians, it is San Bernardino entury. The principal river is taught liten to be good cilizens and developed the lands. But few of the partirichs remain, but the old sadde leniblings, especially the one at San Gahriet, still stand, silent, stately and significant memorials still stand, silent, stately and significant memorials of the days of said lang sinc, when the people were conlect to live primitively, contended and

The land reaching to the occur is also clayer in the hollows, and gravelly on the ridges, clayey in the hollows, and gravelly on the ridges. Alkali is occasionally note with in sinus localities, sugar best raising being best within sinus localities, singar best raising being best adapted to that kind of soil. This would indid mother to the many ladies agreat extent, this county has many never failing strengs, having their sources in the monutains and strengs, having their sources in the monutains and dightful. It is said that, in 1832, the crop of the Nu Bernardine, annur. The principal right is gravely as a pearly many lines. delightful. It is said that, in 1882, the crop of orangis was 5,000,000 and nearly as many lines and homons. Cereals are more dependent on the character of the season. The following will give the reader a more neutrate idea of the variety and productiveness of this fertile county. Amount of imno produced in one season, 5,000,000 gallons; brandy, 500,000 gallons; incol grown, 3,402,650 hs;

homy produced, 575,000 lbs; sores sown to wheat, | new vines being set out in 1882. The vineyards are 60,000; number of nerve to oretards, 5,000; vineyards, 9,342-hesid a many other products not en-imagent d, but which are worthy of months.

The price of bool is steadily improving, even the pooret head bringing from \$12 to \$18 per sere, and irchards in full bearing bringing from \$1,000 to \$1,500 per mere.

#### Orienze Culture

The oranges of Los Angeles county are delicious and tiring good prices. The lemons and hines are equal to those ruged in the old yournity. tivation of this truit is not difficult, the most needed factors being patience and personence, The fruit trees must be irrigated, and the mostima ble value of water, in a land where no rain fulls during six much has not hear, cannot be apprech-ted by one who has not head in such a country. Several systems of irrigation are practiced; one by booding the hand a wasteful plan that can be used only in fial districts. Furrows are more popular, and by this process a large head of water is brought upon the land and distributed in small streams in many narrow farrows. The streams are made as small as will run across ground and are allowed to run only inenty four hours at a time.

is a plan in practice in mountain irrigation of diaging basine around the routs of frees and fifling them with water brought in pipes or ditches, and often by Ilmnes. Sub-irrigation is thought to communize water, as it is carried in pipes from two to three feet underground. By opening valves in these pipes the mater is lot out, and up, but never comes above the surface. The main dilebes or causis are sometimes quite picturesque, ranning as they often the in tween come of overhanging free and climbing plants and vines, occasionally being spanned by artistic bridges, tialf bidden by the lux urnant lollage. These streams are frequently met with must unexpectedly, and ure quite pleasant surprises. The groves of oranges, lemons etc. very regularly laid out and are siquewhat monotonous, as the trees are trimmed so as to appear short and thick-not a pleasing characteristic either in trees or persons. The otehsrils must be irrigated about once in six weeks, and well oultivated after each fluorling. No weeds are to bu seen in well kept orobards and everything tends to a mly appearance of the groves as the leaves fall

The leading position which the fruit interest will ultimately take, has been reached in Los Angeles The fruit barvest is nearly uninterrupted all the year round. The unin orange crop riseus from January to May, ulthough oranges hang on the trees all the year. The lemon, lime, and cilran ripen and hang like the orange. Apricols, pears, reaches, nectarines, atawherring ourrants, and fire are pleutiful in June; apples, pests and peaches, during July and August. Late in July gin to ripen and come into market, and last till January. September is the hest month of all, baving grapes, peaches, pontegranales, walnuts, almonds, and a second crop of tigs. From the latter part of August till Christians, the vintage does not cease. The worst entity of the orange is a most curious insect called the scale bug. It looks more like mildew than apything alive. nsnally black, sometimes red; nothing but prompt treatment with tobacca will eradicale it. Most of the fruit is well looked over, and hoxes are disinfeeted, as by these means the scourge is kept down.

#### Grupes

Notwithstanding the increase of grape culture, price of grapes is advancing; some estimates making it forty per cent higher than it was five years It is a quicker and probably a more profitaago. It is a quicker and probably a more proma-ille industry than orange growing. It is estimated that a vineyard in its fourth year will produce two tous to the acre. In seven years four tons. In the tenth year it is very profitable, rickoning the cost of vineyard at \$60 per acre, exclusive of first cost of land. The annual expense of cultivation, picking and handling is about \$25 per ners. The rapid in-crease of this culture has been marvelous. In 1848, there were only 200,000 vines in all California. 1862, 9,500,000; in 1881, 64,000,000, of which 34,-000,000, at least, are in full braring. Such facts and fighres are distressing to advocates of lotal absilicence, but they may take heart from the fact that a by no means ineignificant proportion of these graps will be made into raisins, cannel or caten

Many grapo growers believe that in raisin making will be found the greatest profit. The Ameri-erns are a raisin critical people. From Malaga atme are imported into the United Slabs about len tons at raisons per annum, one half the entire crop of the Malaga raises district. This region has an area of only four humilred square miles. In California, an area of at least twenty thousand square mins is adapted to raisles, which are cured by ideeing the gathered banchys on the sandy soil, and allowing the sun to shine upon them with its flereest hind and furning them aften enough to prevent mould from secundating. Many dryves are used, but this plan of rand drying has been found to be the most satisfactory, and produces the best raisins.
The annual yield of wine in California is already

estimated at 10,000,000 gallous, nearly on-third of this is made in Los Angels seamty, where the grape culture is on the increase, two millions of

Interesting during the packing season, being througed with Mexican and Indian pickers. The ludians are good workers, and come in bands and pitch their tents just outside the vineyard. The wine cellars and great crushing vats tell the vineyard's story even more emphatically than the statislical figures. One vat will hold over one thousand gallous; piled full of grapes, huge wire wheels drive round and round in the spurtlag mass, the faire flying off into troughs on each side, leading into many great value propared to receive il. low, men toll hard, working the wheels; loads of grapes, cuming up every moment, are emptived into the surving val. and the whole atmosphere is redothe odor of richly scented grapes.

The cellers, where the julee of the grape is stored, are quiet, dark and fragrant; full of great, oval-shaped butta, tou feet in diameter, each containing over two thousand gallons. These stand as palpable evidences of the great value and impurtance of this industry in Los Augyles.

The soil of Las Angelys valley is exceedingly tertile, and there are many smaller valleys, which are

#### City of Los Angeles

Is located in this valley. It is the largest city of southern California, and is bountiful as well as healthful. It is quite metropulitan in appearance, baying consecutive blocks of time business bouses The streets are well paved, kept in and residences. good order and lighted by gas and electricity. Many modern and beautiful cottages and desirable braili ings have taken the place of the old adobes. There bluffs in the city, from which most extensive and heartiful views of miles of flourishing orange groves and grain fields are to bo seen, as well as numberless comfortable, elegant and costly buildings The eny property is quile valuable, sud has grown vspecially so during the past three years, since the Southern Pacific Railroad gave direct communication with San Francisco, as well as with the South and East. The population has increased to three times the number it contained in

The educational advantages are superior, and the chools are well superintended. Not many years schools are well superintended. since, or after the burning of the State Normal sobool at San Jose, the Los Angeles people offered all that was consistent to have the school located but San Jose wanted it, and right of precedence also favored the latter city; but the State Legislature appropriated an amount sufficient to build and maintain a branch in Los Angeles, which is an honor to the city, as also are the other educational institutions-Branch University, high and graded schools, Sisters of Churity's day and boarding achool for young ladies and St. Vin All these are spoken highly of by the people, who are right in laking so much public spirited interest in the advantages the future citiz as are

### Nesvapopora

The prosa of Los Angeles is ably supported, and all that can be, is being done by it to lurther the The dailies compare interests of this headity. The dailie favorably with those of larger cities. many newspapers published in Los Angeles, among which are the Las Augoles Mirror, Herald, Times and Rural Galifornia, the first three being dailivs, the latter a weokly.

#### Witter Works

Water is turnished the city by the Los Angeles rater works theorperated in 1868 costing \$400,000. Prior to 1868, these works were onned by the city, and the new company has added to the facilities

and replenished the supply in a satisfactory manner.

The Beaudry water works is a private enterprise. established an years ago. The water is obtained from a magnificentapring, bucated on the diamethy. covering an acre of ground. This water is said to

Oburches are well represented, there being ten ligious denominations lu flourishing condition. Many of the buildings are of elogant appearance and good construction. The Infirmary is under excellent supervision, and its immites are confort able and cheerful. The City library is well patronized, and is a means of furnishing much useful in-formation to the intelligent readers of this city.

Street car lines run throughout the city, one lead-ing direct from the Southern Pacific Ballroad depot, through the principal streets, past the Ptco house and other hatels and business linness. Other lines lead through the residence parties, and are a speedy and convenient means of communication.

The City gardens and nurseries form attractive

and instructive places of interest to residents and atrangers visiting the city.

Los Angeles is reached by the Southern Pacific

Itailroad, and by Govdall, Perkins & Co.'s steamyrs, stopping at Sau Pedro, the harhor for ties Angelys, reliers a raltread connects it with the city. The sleamers are well officered and the accommodations are good, making this route unite papatar. also connect with various places, and telegraph rud telephone communuloutions extend to all the pringi-

#### ttie an Ben.

The oldest is the Los Angeles county Bank, established in 1871. John E. Pister is President and H. L. MacNell, cashter,

The First National Bank commands a large capital. Its President is E. F. Sponce; cashier, Win.

The Farmyrs and Merchants' Bank is a thoroughly reliable institution, conducting its business on an especially sulid financial basis.

Attentior to ries.

Oarriago making is a prominout feature in this city, there being many factories. Wm. Pingree, furmerly of Chicago, is an able business man, and a dealer in the colebrated Abboll vehicles. These are made in Chicago, and are of superior quality he material and workmanship. The tirm are also the manufacturers of the celchrated Concord coachys.

L. Lichtenberger is a manufacturer and importer of fine carriages and spring wagons, and is agent for the Putnam breaking cart, and for wagons, ele., from New York, New Haven, Columbus and Bacine. Mr. Lichtenberger has been established ninete years, and has proved himself to be a successful man. His shop and repository are two stories 150x40 feet, and be has also a storebouse 50x75 fevt in size.

S. W. Lintwicler, located on Los Angeles and Pronona streets, has a two-story building, 50x152. used exclusively for wagons, carrieges and buggies It is the largest imuse in this line in southern California, and all atook made to order for this climate are warranted not to shrink. Mr. Lintwleler is agent for the noted Studebaker farm and freight wagons, spring wagons, baggies and placetons,

Jesson & Hulzygraffo, connected with the Farmers' blacksmith shop, and Schmidt & Hafeman, are manufacturers of carriages, the latter making a specially of the desert wagon.

## Other Bushiess House

Dolter & Brailley, dealers in fitrnillire, corpels and wall paper, on Main street, is one of the largest houses in southern California. The store is spacious and carries a \$69,000 stock, and the firm do a \$250,000 business annually.

Shurp & Blusser are practical upholsterers and mattress makers, and dealers in carpets and furnitoro. This firm makes a specialty of fancy deenrating and wall practing.

M. W. Childs is a dealer in stoves, ranges, pamps, shelf burdware, agricultural implements, crockery and glassware. Mr. Ohlds as a manufacturer of tin, copper and sheet iron ware and artesian pipe, so extonsively used in this county.

Brown & Mathews are cleaters in builders' hardware and agricultural implements, on Spring street.

Schooler, Johnston & Co. are doing a large whatesale importing business, at 36 and 38 Los Angelys They deal in hardware, coal, iron, skell Concord and Kingsley axivs, carriage springs, horsysince nails, etc. This hous oughly devoted to business. This bouse is reliable and thor-

Lickhart & Co. do a thriving business in hay, grain and mill feed. This is a popular store as goods are delivered free of charge to purchasers.

Geo. A. Vignoto is the proprietor of La Espec-onza store, and is a wholesale and retait dealer in graceries, provisious, wines, liquors and eigars, Mr. Vignolo is also a commission merchant,

The City foundry and machine shops are localed on Main street, and supply home orders.

J. F. Holbrack manufactures well tubing and water pipes, and J. D. Burrows is engaged in the aame business.

The cream tirriar works, E. Reinert's cooper shop. Holbrook & Ward's beautifully pulished would mill furniture slore, the soils works, Perry & Pollard. pipe and planibing material, two marble works and the lumber yard of Kerchoff, Cuzuer & Co., are among the numerous business houses, many of which are not mentioned.

There are several broweries, the Philadelphia and Now York being the principal. The wineriva are owned by Valta & Tononi, M. Keller, and J. Ber-uard, all of whom ship many thousand gallins vearly.

Oue of the most important new industries is the Southern Partie Packing Company, which proves of great benefit to the community, as the surplus fruit is now utitized, and many hands are pr mployment.

John B. Niles is with William Niles, raiser of live stook, and also with Pomeruy & Mills, real estate and loan agents. Mr. Niles is an agreeable genile-man and attends strictly to business.

Payno, Sisutun & Co., superfor artists and photographers, are located to Temple block, at the janetion of Spring and Main street. Their work is al-first-class, and is done for the lirst people of the city. Their views of southern California are ways. colled for beauty of Buish and workmanship, and rouly sale among people who like sonvenirs of the beautiful scenery to be found here

George T. Hanly & Co. bave a large and well selected stock of tens, coffees, splees and yeast powin their power to give a good, pure article for the least maney, and believe in particular tions in dustry. This firm is composed of excellent business men, and pleasant to deal with. They are located near the new refleoad depot, and are doing a largo wholesale and retall bush

Pleo; the Cosmopolitan, situated in the center of the city, has the, ary rooms, and the wants of travelers are excefully attended to. From the Pica, a magnificent view of the Sierra Madre mountains may be obtained. This house is opposite the delightful plaza and is well appointed. The St. Oharles, on Main street, has all the modern im-provements for a draf-class house. Buiching's Hulching's arding and lodging house, and the Rimira and Pacific Houses are smang the second-class vatain

The Bristices Catlege.

This institution is located in the Post Office bulliling; Mr. C. W. La Fetry being the efficient principal. This is a new business callege, but bids fair to become a large and prominent one are acceptions day and evening and full business course, phonography, assaying and Spanish are taught by competent instructors in all their branches. Lather are admitted, and trained as thoroughly as other simbouts

### Postery.

The raising of ponttry commands much attention in this county, and great care has been given it hy a practical poultry raiser, Mr. William Niles, whe has published an exhaustive frentise on the spbject, that is well worth careful perusal by the many interested in this sometimes puzzling occupation This book treats on the care, exercise, total, printi-homes, nests and water for forcis of all kinds; thus trations of the finest breeds herug given. tains, also, illustrations and items relative to thur oughbred four-footed stock, written by one who is experienced in the business. Mr. Niles is an unrter and breeder, and ships annually many luxis of eggs, chickens, etc.

#### Souta Ann Vatley.

This valley is one of the most productive regions in the world, and is about twenty miles long and sixteen browl, from the foot-hitls to the ocean east four-fifths of its area is ar-ble land. William these limits, the orange, lemon and lime grow side by side with the apple, peach and pear, while the dolicious aprico: of Asia flourishes and matrices to perfection with the bgs of Turkey and Smyrna, the almoud of Italy, and the clive and English walnut. The variety and productiveness of the soil offers a field for every phase of agriculture mist hornoulture. From eighty to one hundred and thiris bushels of corn are raised to libe acre, and, at the same time, between the rows of coru are raised large crops of onious, potatoes and pumpkins. Many farmers, after harvesting a crop of barley (yielding from sixty to one hundred bushels to the acrel, plow the land and plant il to corn or polatoes, thus sicuring live crops a year. The geo-graphical position of the valley is most favorable no intervening mountains arise between it and the coast, and thus, for the greater part of the year, its inhabitants enjoy the gentlo sea brevze, making the days more pleasant, and the nights more comfort able for steeping. The average temperature for the past seven years, has been sixty-five degrees; the highest average in any month being sevenly-five and one half degrees, in August; and the lowest, fifty six degrees in December.

shipments from Santo Aga alone, by railroad and steamer, for the year 1992, aggregate the enormous amount of \$2,000 000 pounds; some of the principal (tems being 5,207,000 lts. com, 800,000 arley, 1,000,000 Hes. wool, 3,207,870 Hes. coal, 200,000 Bos. potutors, 98 240 Bos. eggs, 80,000 Bos benus, 40,204 Bos. tages, 150,000 Bos. huney, 185,860 galls, wines, 27 780 Res. drawd fruit. The ship ments also conferseed 331 car leads of the gs. 57 car-leads of sincep, 64 car-loads of green fruit, 21,212 boxes of ons, 18 607 boxes oranges, 12,780 boxes lemons and 560 boxes limes.

Only ten years settled, with about one-third the land onlivated, one may well wonder at the progress made, and the prospects for the future.

The principal lown to the valley, and second largest in the county, is

### Startic Aun.

About thirty miles southeast from Los Angeles It is the termions of the Santa Ana and Los city. Augeles division of the Southern Pacific Railroad. Its heation and surroundings are in the bighest degree picturesque, being attracted on a slight eminonce, while on every side stretch a away the fertile valley, on the east to the Suntu Ana mountatus, on the north to the vinevards of Ambeim. and on the routh and west to Its orange groves and orobards, its vineyards and hardsome entinges and managens builtin additional obarm to its benuifful surroundings. Santa Ana has a population of about 2,50tt, which is steadily

The Santa Ana lintel is of the first class; the proprietor is J. W. Layman, who has an odd way of advertising, viz "I will treat my guests as meanly as I know how, and charge all I can get." It is probable that he does the contrary, Judging from

the paironage the house receives.
The Commercial, is a reliable bank established in 1882, with D. Hulladay as President and W. S Barilott, Cashler. Outstal \$100,000.

Many fine stores adorn this little "burg," among whileh are: Snyder's general inerchandles store; and that of A. G. Phillips, dealer in stuple and foncy Hetels.

The principal ones are the Cosmopolitan, and the

# THE RESOURCES OF CALIFORNIA

B. N. Rowe, proprietor of the Santa Ana book | store, has a large stock of solmol supplies, books, brackets, pictures and frames, profshils, silks, eigars and tobacco, and is sgent for San Francisco and Eastern papers and ungazines.

H. T. Hollingsworth, watchmaker and jeweler is located in a store equal to any in Los Angeles. It is in a due buildin, and is well stocked with all kinds of silver and gold ware and jewelry of the Mr. Hollingsworth is an expertfinest quality. worker in jowelry, and makes repairing a speci

Nestor A. Young, successor to Young & Woodward, is no enterprising and energetic agenr, who is doing his best to formard the land his terests of this vicinity, as he deals in stock ranches, dairns, orange and bun in orchards, vineyards, hes ranches, and any sort of land for any purpose suited to this proline section.

The press is well represented and ably managed, and is actively engaged in farthering emigration, and distributing practical knowledge.

Santa Monica.

This torn is sixteen miles by rail from Los Angeles. It is here a here good surf bathing nmy be enjoyed all the year, and every accommodation has been furnished by Mr. Scott, at a cost of \$10,-Large bath houses, with hot and cold sait water baths are on the bench, directly in front of the Santa Monica hotel. Everyone who can find it convenient, should visit this famous snmmer and winter resort. The hotel is a gem of its kind, having accommodations for sixty eventy-five guests. It is under the proprietorship of Mr. Scott, and the buildings, located on the bluff overlooking the ocean, have a and billiard table attached, first-class

Santa Mouica is a flourishing little village, containing a population of about six hundred souls. There or tbree hotels, tbree stores, a livery stable, two churches and a fine graded school, situated on Santa Morica bay, in the midst of an exilent farming country.
Mesers. W. D. and E. J.

Vawter are the pioneer dealers in Santa Monica in general merchandise.

M. E. Chapin is engaged in the sale of groceries, provisnewspapers, stationery, etc., and is quite

H. Giroux & Brother. dealers in groceries and liquors, have been estab-lished since 1875, when Santa Monica was first Isid off by the Santa Monica Land Company. They have a large stock and are doing well.

Mr. M. R. Gaddy bas several single and double car-riages, as well as a number of saddle horses, for ladies and gentlemen. The drive over the mognificent same beach, for twenty miles, is delightful and a natural bridge is also to be seen during the trip.

### Anaheim and Orange

Are both centers for the anccessful growing of

nrange, lemon and other fruits and vegetables. At Orange, F. E. L. Marsh, of the Anderson bouse, is an enterprising insurance agent and real estate

The Anderson bouse is under the supervision of Mrs. Merch, and tonrists and others will not find a better place for a sojourn among the orange

### Ostrich Farming

The following notice of a novel industry we copy from the columns of a cotemporary:

"Not far from the town of Anaheim is a ranch to which many visitors are attracted, both for the puronly ostrich farm in California. six hundred and forty acres of alkali soil. A well, which has been sunk to a depth of three hundred feet furnishes many thousand gallons of water per day. With the aid of this well, the proprietor, Dr. Sketchley, is enabled to wash the soil and draw the alkali out and off the land. The estrich farm planting began only in last April. The ostriches are dangerous birds and are feuced in a curral of heavy boards to keep them from kicking through. The incubating house contains two large incubature with one lumilied and two ostrich eggs, which are with one limited still the described specific and the farm were transported about 22,000 miles, partly by ear, before reaching the farm. None were lost on route and more have died since being placed on the farm. The climate of southern California is favorable to The climate of southern Cainfirm is a socially them. The animiner weather is ward enough and the winter is not su cold as in Africa, their mittee home. When the temperature was one hundred and ten degrees in the shade, the drawers contain-

ing the eggs were taken from the incubator and the 'ance. Some are this hed in natural woods, and some eggs laid out on the ground in the shade of the liquer, and it was then warm enough for incubation, The success of the experiment is assured. If the eggs should not hatch, the value of the feathers will cover the expense of builting the birds for one year. Since April 12th the birds have deposited two hunthed and seventy eggs, one bird laying as bigh as for iyoseven; they lay every other day. The slift mity of farming astriches properly is mentising the chickens. The young bird contract cold upon the slightest occasion. A chiefm six mouths old bears feathors valued at about ten dollars, When fourteen nonths old the value is between \$20 and \$30, and n bird imtween three and four years old is valued at nbout \$250 annually. The ostriches eat mainly nitalfs and barley. They are also fond of turnips. cabbuge unil potatoes.'

#### ... Newball,

This village is on the line of the Southern Pacific Railroad and located near the San Fernando tunuel, the longest on the line. It is not much more than a limitlet, the Southern hotel being the center of attraction. This building and ground is owned by the railroad company, who keep everything in the best of order. B. R. Boynton is the proprietor, here the Continental Oil Contpany ship their oil all over the State, and people from Los Angeles stop over night at the Southern in order to take Allmin's stage for Santa Barbara, reaching there the same night.

The Derrick saloon is kept by T. V. Johnson, who is the grandson of Dr. Johnson of England. Mr. Johnson came to Newhall in 1883, and is well established. Ho was formerly proprietor of the

arc ceiled with wood of the most expensive character.
The interior walls are covered with marine currosities, gathered by sailors in all portions of the world. The collection of bandwork, made by sailurs is perhaps the best upon the coast, and the anoble of ships and quaint carvings are splended. The most remarkable curiosity of all is a large star form d out of legal documents from the courts and sherit's and are howents benught against Capt. Jones by the Southern Pacific Railroad and General Phineas Bunning to eject him from this spot, but Unsuversaful thus far. The old gentleman intends brinainage a newspaper called the Shipping Gazette, and is determined to grow rich with Sin Pidro.

For these items, on the whi ship-house, we are indebted to the Santa Burbara Inchymmhint,

#### GROWING WALNUTS.

The following brief description of the largest walnut orchard in California, me take from the Santa Barbara Press;

The Carpinteria appears to be perfectly inhipted to the production of English walnuts. sumetimes called the Muderia nut, large quantities them being mumally imported from the Madeem Islands into the United States. It is a native of Persia. The Mission fallers planted these trees in all the Mission which they founded in Collfornia, and, at some of the old Missions, many of the frees originally set out by them, still flourish and produce enormous crops every year. As the tree comes to maturify and begins to bear here in the same number of years as in Perso, and grous qually as well here as there, it is evident that the

from the trees before being funy materiot, he said "I am surprised that such a runner could exist. I have writched my orchard with the namest vigilance and can not detect the slighest ( West from the hot weether except that it matured the crop a little suoner. As to the yield, I expect to harvest in the neighborhood of 850 or 050 sacks at two and a quarter bushels per sack or about 1,900 bushels.

"As to how many bushels per sero my orchard produces, that I can not answer with any degree of accuracy, as part of the trees are young and a correct estimate of their production per sere can unt he made. I do not think a wainur tree can be pronounced to be in full learing age till it is a hundred years old. The great fluancial consideration in walnut trees is their steadily increasing yield, year after year. As to what a tree can prodine when at full-bearing age, I have heard of trees in France that were said to be 75 or 100 years out. that yielded aftern bushels annually. The oldest trees I have are 23 years and, and the largest coup produced by may one tree was five bushels

As to walnuts being of hetter quality here than observations of think they are, not attostanding our walnuts at present bring a higher price by two or three cents than the Los Angoles or Chilt nuts. secret is perhaps a today in the drying.

"Wegenroom nuts in anhy-house instead of In the sun; by the latter method, ther alternately dry and gather mosture which generally results in ruting about 20 per cent, of them, while in the dry-house method not more than one in a hundred are bad. At the time of harvesting them, the nuts are allowed to ite on the ground about ten days, they are then convered to the dryer.

"At eight years of age a tree begins to bear, but does unt become paying until twelve years old. The ground can be planted in the years of waiting with small sertal crops and so utilized. and paying for itself many times over before twelfth or thirteenth when the spreading shade of the trees becomes too dense and small crops can well be dispensed with.
"Walnuts can be success-

fully raised anywhere in Southern California where the soil is a sandy learn reaching deep enough. The trouble is that in many places there is a hard-pan at a depth of about three or four feet which the tender roots will not penetrate, the roots must go deep or the tree can not be a success."

The price per peund this year is eleven cents. Walnuts are seldom or never a drug in the market. Col. Heath will this fall pluat out a thousand more trees and Intends extending the orchard until all of his land is so occupied.



## A MAGNIFICENT LUM-BER REGION.

Fig. The Global Pay people have any good idea of the vast timber resources of Tuchimne on the sonthern boundary, riposa line, on the upper Lying along the Mariposa live, on the upper waters of the south and middle forks of the Tunhnume river, is the finest body of lumber along the timber in the world. Here, for sixly miles, is an unbrohen furest of sugar pine, yellow pine, red and white fir and sprace. The trees are engrmous in size and rise to magnificent beights, while the growth is so dense as in plunge the depths of the forest into a perpetual gloom. from five to ten feet in diameter, and their freedom from limbs and knots greatly cubances their value for lumbering purposes. It is nothing extraordinto see sugar pine and red fir trees ten and twelve fret in dismeter, straight as an irrow, and results from height of 150 or 200 feet. This body of timber is easy of access, and only requires to be inpped by a milroud to be turned into a vist source of nealth. As yet most of it is the property of the Government. Much of it, however, has been surveyed, and is now in the market. About two years veyed, and is now in the market. Animir two years since, some parties projected a railroal through this region, and prepared to grab shout 50,000 weres of the timber, but apparently the scheme has fallen through. Their scheme was not a legitimistic exterprise, as their object was only to get the project under way, and then make a big deal with Eastern enpitulista. Now the giant trees shaul nodding invilation to the ruthoad and sov milk Whenever these two agencies make their advent into this im nemes forest, old Tholuntue will spring late re-newed life and prosperity. The field the follow now, writing for the coming of enterprise and cap-



## GROUNDS OF THE HOTEL DEL MONTE, MONTEREY, CAL.

#### Wilmington.

This is a town on San Pedro bay, formerly the shipping port for Los Angeles and Arizona. It is a thriving little place. The Railroad hotel is managed by S. G. Thompson. Rafarl Poggi keeps a restrurant and liquor store. Wilson college, under the auspices of the South Methodist Conference, seems to be doing a good work. The buildings and lands were formerly used as barracks and hospitals for Government soldiers.

#### A Queer Hubitution

Below Santa Barbara, among the saud-hills of the Palos Verdes rapcho, upon the shores of San Pedro bay, is a quaint and most interesting little trome, perched in a dry arroyn, consisting of a square home, with a plaza extending all around it. and a flag-staff surmounting the whole. It has the appearance of a cosy little hotel, and over the top can be seen painted upon the stern of some wreeked ship, the words "Ocean Villa," Oddly enough, house and its whole surroumlings are made up of partions of wrecks gathered by the owner, Captain Jones, as a waterman upon the south coast during ten years. The garden fonce, the phonts and ornaments bear signs of the sea. The innise is a contibination of bulwarks, lockers and cabins. The principal room is the cabin of some first-cir ahip; the room above it is the calim of a bark; the kitchen is the galley of a wrecked increhantman, and each and all of the many appointments are either cabins, wheel-houses or cooking galleys transferred from some dismantled craft wrecked upon the hay. No two rooms are alike, and all are extracted so as to preserve their original appear-

Ocean View house, now Douglas house, of Santa | said and climatic conditions are exactly similar to | county. those of its native hibitst.

> The experiments made with this tree in the Carpinterin are a perfect success. At Col. Heath's place, containing about 200 acres, 150 acres are set not in walnuts, which are all bearing fruit. Some of the trees are 23 years old, and last year, each of these old trees produced over twenty dollars' north of fratt. Other trees are younger, and produced less. The tree is extremally hardy and vigorous. It is not subject to any disease nor affected by any harmful insect or worm. It is as bright and thrifty as any forest tree, and at a distance resembles the oak of native growth. The oredure meds but little care or labor. The weeds are kept down by running a cultivator between the trees in the apring, as often as they make their appearance One man, with a span of horses and a modern cultivator, can vasily keep an orchard of 160 acres free from weeds and in perfect order. No labor is required to gathering the units; when ripe, the outer shell opens and the ants tall to the ground. All onen opens and the ants tall to the ground. All first the owner has to do is to gather up the nois. They are dried in a dry house before being sent to market.

> Col. Heath yesterday was so obliging as to sam on, Heatin yeareting was a conging as a canning far ms, it answer to a series of questions, the following items about the present year's crop. In regard to the dry year, be said that it makes comparatively little difference with the walmut what the rainfall of two or three seasons may bu, as its roots reach to a depth where they obtain abundant

As to the current report that in some localities the heat and drought have caused walnuts to drop

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#### VENTURA COUNTY.

## Its Location - Productions - Soil - Oil-Orange Culture, Etc.

#### Its Vultays, Cities and Towns Described

(By the Travellug Agent of Tue Resources.)

In 1872, by an act of the Legislature, Veniura county was separated from Sauta Barbara, and bounded by that county and Kern on the north and west, the Pacific Ocean on the south, Los Angelvanu the east, and includes the islands of Nicolas and Anacaps. The county contains an area of 1,296,000 acres, and its capabilities to support an increasing population are remark-After subtracting all those portions of and mountainous lands too broken for agricultural purposes, there still remains sufficient tillable had to maintain twenty times the present population.

valleys are grain-growing districts. which generally produce without inigation; but whenever water touches the soil it is prolific in Iruits, flowers, vincs and vegetables A few miles from the sea, forests of live oak cover the northern hillsides, white the senthern slopes are coated with grass, llowers and honey-braring sage. The prevailing trees along the water courses, are sycamore walnut, cotton wood and some inferior varieties while extensive white oak growths are found in portions of the Ojai, Concjo and Simi valleys.

The Smia Clars and Ventura rivers with their tributaries, furnish almost unlimited water power irrigating facilities. The rivors, ranning through their respective valleys, carry fertility in their thiwing paths to the very verge of the ocean. In none of the southern counties are the two prime nvce-sities-timber and water-more abundant, fuel cheaper or easier of access.

the million or more acres in the county, scarcely over one hundred and fifty thousand are under cultivation. Over all the rest roam droves of sleep and herds of cattle, but not as many of these, by any means, as the land is susceptible of supporting. Roads, excepting railroads, ponetrate every section of the county that needs them. shipping points are San Buenaventura and Hueneme (pronounced Way-na-ma.) From these points run steamers of the Pacific Coast Steamship Company to San Francisco and intermediate ports. The other outlets are main reads leading to Newhall (on the Southern Pacific Railroad), to Los Angeles and to Santa Barbara.

Stages run daily from San Buenaveninra pig Saticoy and Santa Panla to Newhail, also westward to Santa Barbars; and a tri-weekly stage runs to Los Angeles via Hueneme, Springville and Conejo, besides a short line to Nordhoff and springs, two famous resorts for pleasure and health.

Productions.

A glance at the industrial prospects of Ventura condity will show that they a g bright and diversified, and gradually becoming more so as its wealth becomes more generally diffused. The people follow the pursuits of fruit and grain raising, gardening, oil refining, and make wine, brandy, olive oil, flour, hacon and butter. All grains and fruits of every description grow here in profusion, while all kinds of vegetables do well. Of late, flax has been extensively cultivated, and Odessa and white Russin wheat have proved a great success and given great impetus to farming. Not less than a million pounds of honey, of the best and purest quality, is estimated as the product for one year from the apiaries of Ventura county; while the wool clip is vained at \$125 000, and the oil region, in the heart of the county, has scarcely been

#### Bee keeping

Is an unneually important and agreeable industry in this county, and no honey commands a better price in the San Francisco markets. The mice handling required in extracting the honey by centrifugal force, should make this honey prefyrred to the costlicst comb article. All along the numerous ranges of font-fulls, encircling the great valleys of the Ojai, Sauta Clara, Conejo, Las Posas, Simi and Tapo, are found the homes of the bee keepers. It must be remembered that there is room for more, as there are bee ranges of vast breadth as yet un located save by the wild bees, which are always the ploneers of civilization. It is reported that there are about seven thousand atands of bees in the county, averaging about one handred and filty ponnda per stand. At an average price of eight cents per pound, a handsome product of the busy bee is seenred.

As before stated, flax is a notable ladustry, and as before stated, flax is a notatic industry, and might, with more care, be realily made a greater source of wealth. This is now grown solely for the seed, which is shipped to San Francisco for the maunifacture of linseed oil. Each acre cultivated for aced is good for a ton of straw, and there is probably more than two thonsand tons of straw in promain only and two monains to have the growing crop, which could be delivered at ten dollars per ton in San Ba-naventura, if a suttable paper-niff was in operation to work it up luto But it seems that more could be made out of this industry by saving the fibre for twine and bagging; while this would only be aponing the door to a wider livilistry, the significants of lines The mission archives are lu a fair state of pre-fabrics, capitalists, fluding a steady supply of flax servation and are well worth sceing. The church,

fibre being raised, would soon erect mills wherever there is water-power and bleaching grounds

Besides the raising of flax, considerable oanary seed is produced, which is quite as remunerabarley, and no more care or skill is required in its development. There is, of occessity, quite a demand for this seed, as the numerous canary birds in this State subsist in a great measnre upon It.

on.

There is a large area of country comprising the oil belt, fifty miles in length and twentyfive in width. This section begins at Rincon creek, and extending across portions of the ex-Mission and Ojai ranches, through Santa Olara valley, and Los Angelos county to Newhall. There are large shipments made from Newhall of this oil, which is of a good, pure quality. At Sespetwenty-seven miles from the wharf at Ventura. there is an elevation of fifteen lundred feet, and be run in smooth pipe down to tide water. At Pinafure wells, are two tunnels discharging into tanks, which might be conducted to the wharf with about seven miles of pipe. tal is required to fully develop this important industry.

Olive Cutture

This branch of industry increases yearly. Tho trees will bear and flourish with little maisture, no irrigation being necessary, and the cuttings from which the tree is propagated can be purchased at the extremely reasonable sum of two cents each; and at a cost of ten dollars, five acres may be set The fifth year the tree bears a few berries, ont. and at the end of the seventh they hear largely, bringing in a profit of \$500.00 per sore. years, the trees, then in full bearing, will yield an avorage of fifty gallons of berries, or twenty-five quarts of oil, which can readily be sold for \$25.00 The cost of cultivation and of making the oil averages \$5.00 a tree, leaving a profit of \$20.00 The olive trees growing in what was once the old Mission orchard, are a guarantee that online is an exceedingly profitable one as well as positive proof that this climate te favorable

Walnut and almond trees flourish in all the valloys where they have been planted. On Ventura avenue may be seen walnut trees of great beauty and sive for their age. The walnut access to be especialty adapted to this county, and is quite as great a favorite, as it bears in the fifth year, thin showing it to be a rapid grower and prolific bearer,

Raisin grape culture is also a surety; Santa Clara valley bring unmrpassed for extent and fertility in this pursuit. The cost of a vineyard is but little more per acre than the cost of a vineyard is but little and the crop in the third year after the entringa are set out will nearly pay the expense of cultivation, and by the fourth year the vines are nearly in full bearing, and, sold to the wine maker, the uer profit la from \$50.00 to \$60.00 per acre, and if made into raisins the profit is shout \$200.00 per acre, or more, as is frequently the case,

There is an immense grape vine growing in this county, as well as in Santa Barbara county. This wned by Senor Moraga, who lives in Ventura valley, above the avenue. It is over seventy years of age, and measures about three feet around the trunk; it is trained over a framework, and produces annually some thousands of pounds of grapes. This fact tells its own story of the home of the grape.

## Orange Culture.

Not the least of the many productions and growths of this county are oranges and lemons. For thirty years these have been successfully grown and the fruit is of the best quality and flavor. New orchards are constantly being set out, and many are just coming into bearing; those around Countles and Tape are in full bearing.

Lomon culture is nearly as prolltable as that of oranges, and the process of cultivation is the same. l'ito tree matures two good oraps annually-one iu January and one in July. They yield aconer than the orange, and are now utilized in making white brandy, which is of a very agreeable flavor and odor; it is a product from the juice of the lime and lemon, in the manufacture of citric acid from this source; it can be obtained in considerable quantities by simply termenting the fresh juicea, by which process their saccuaring contents are converted into aicohoi, which is distilled in the onatomary manner, leaving citric acid as a residue, which becames puralled to a certain extent by boing freed from its saccharine and mucilaginous constituents."

#### The Mission.

On the southern slope of the town of Ventura stands the ancient mission buildings, founded in 1782, more than a century ago, by the wated Father Junipero Serra, the president of all the Franciscan missions in California. The old Padre was indufatigable in his efforts to establish these institutions and worked uncessingly all left busy life, which beautiful the control of the control which terminated at the age of sevenly-one years, He was one of the first to tustil into the minds of the battees the principles of morality and industry, and trained them in agriculture and bordenliure as well as in morals and religion.

is as usual in the mission buildings, is built of sdobe, with stone foundation; the morter that was used is as hard as the rook it coments.

A plaza, euclosed by buildings in a state of rain on the east and north, includes, besides the church, the old burying ground on the west of the main building, where sleep the dead in the shadow of the church they built. The area in front is reached by a flight of eight steps; on the right stands a massive Moorish tower, which acts as a substantiaf buttress to the east wall of the church. The interior is also well fitted up, and is a deoldedly interesting spectacle.

#### The Town

Of Ventura, the county seat, is located on the eea shore, near the mouth of the San Buena-venturariver. The laud has good dramage, as it slapes from the surrounding hills to the ocean Embowered in luxuriant growths of cucalyptus and pepper trees, the town appears quite attractive and picturesque, with its school buildinge, plazas, palms in the old Mission orchards, oll refineries, and the court bonse, dwellings, botols, storcs, churches and warehouses, arranged In their proper locations.

The bank of Vontura is a flourishing institution, doing a commercial banking business. The officers are Thomas R. Bard, president; D. S. Blackburn,

vice-president; Henry Clay, secretary and cashier, At the Palace Hotel is the office of the Los Augeles and Ventura stage line. At this hotel tho best accommodations can be found, as is also the case at Ayer's Hotel. Commercial travelers both, as they are ranked first-class, Ayer's Hotel is the telegraph stage line's office.

Hicks and Archibald carry the largest stock of harness, etc., in San Buonaventura. Mr. Archihald is the sole manager, having recently opened business in the old atand of Charles Barlow. Archibald line improved the salesroom by putting in a show case and other improvements, where his fine saddles and harnesses are displayed to advantage. Having had an experience of twenty years, he is a first-olass workman, well worthy of public

Mr. J. Richardson is an enterprising manufac-turer of furniture and building. He employs on an average about five men; ha store is 35x150 feet and on Califorius street its dimensions ar 50x100 feel; an eight horse-power engine runs the

Ohaffee, Oilbert and Bonstell are importers and dealers in general merchandize, farming implements and lumber, and pay the highest price for wool, hides, grain and produce.

The drug business is well represented by two stores; one, the Pioneer, is kept by Mr. Edward Taggart, an affable bosiness man; and the other, called the Ventura Drng Store, is next door to the post office. Mr. N. T. Cody is the proprietor, and thus a great variety of family medicines, perfumery, brushes, etc. Mr. Cody is agent for Wells, Farge & Cu.'s Express.

Joseph Ruth le a manufacturer and dealer in boots and shoes; his store is on East Main atreet, and is the largest in the county. Mr. Roth is a pioneer dealer and employe two or three men. He importer of eastern goods and saves the middle commission, thus being able to sell goods beaper than any house in town,

Mr. E. Hersbfelder is in the same business, and also deals in gents' furnishing goods, bats, caps,

On the north side of Main street, opposite the Free Press office, Barthelt Bros. are located. They are excellent jowelers and deal extensively in solid sliver and plated ware. patent case are a specialty, as is also careful repair-ing of all kluds of braken jewelry. This firm deals also in music and musical instruments, books and stationery, and have a news agency. They are agents of the Pacific Coast Steamship Company, and are prepared to formula oneignants from Europe with tichets on the very best of torms, being agents for the old and reliable Ham-lang-American Steamship Ompany. Parties residing on the Pacific coast, by simply applying at this store, can parchase tickets that will take pass sengers to and from any part of Europe. They will also issue bills of exchange on any city in Europe, so that purchasers may either procure their tickets at this office or at the home office, and all soms of money are remitted at the very lowest rates, and any information in regard to the agency will receive prompt attention.

The favorite drives out of town are delightful, and expansive views of hill, river, ocean, light-house, etc., are to be had. O. R. Legue and others have first-class turnouts and swidle horses always on hand at moderate rates.

Blacksmitting and horse shosing are well done to McDonnell Bros., corner of California and at McDonuoli Santa Ciara streels,
The Press

Is well represented by the Ventura Free Press, McLean and Sons, publishers and proprietors; and by the Ventura Signal, Shoridan Bros., publishers and proprietors. Roth newspapers are wide awake to the demands of the progressive age in which we live, are ably conducted, and devoted to the interestant Ventura county and southern California.

A public library and reading-room are well patronized by the reading public,

Masous and Odd Follows hold meetings in Spear's Hall, while the Good Templars have fitted up a hall on the south side of East Main street. The court house is hidden behind a double row of olive trees, in what was once the old Mission orchard. Noteworthy are two date palms that grow between the hutels and court house; they are the largest in California, and were planted by Father Sanla Marin over a century ago from seed he brought from Spaul.

There are two oil reflueries near the warshouse and wharf, making both illuminating and inbrigating oil, using asphaltum for fuel. Near the mouth Ventura river is another oil refluery.

Two lumber yards supply the demands in their lines, and a fine quality of brick is the neighborhood from red clay. These bricks are used for many buildings, and are supplanting the old time

#### Sauto Ponto

Is next in size to the county seat, and the center of a choice fruit and farming section, as well as the petroleum region. Being anpplied with delicions water from Santa Paula creek, through pipes, from an elevation of eighty-live feet, it is, of course, comparatively free from danger of fire or annoyance from dust. The area of this vailey is seventeen thousand acres, and more inhabits uts are needed to utilize this fortile section. Corn is prin. cipally tilled here, because the rank wild mustard oulgrows small grain so as to overshadow it entirely, but this is only in particular places. bave seen a field of flity acres of (idersa wheat which will yield at least flity bushels to the acre. In all directions around here, the success in raising Odessa wheat moures great wealth to the county.

There is a fine flouring mill situated at the aouth of Santa Panla creek, owned by Messrs. Blanchard and Bradley, and run by water power. They make an especial fine brand of " middlings purified," which is much sought for in the markets here, and preferred by many to that made lu other Messra. Bradley and Blanchard have an localities. orange orchard of one hundred acres in the neighborbood of Santa Paula, fenced with a hedge of limes along the public road. Great groves of eucalyptus trees as thick as they can grow, tall and aymmetrical, are to be seen in this vicinity, but the orange oulfure is superior here, and there are many groves in most excellent condition.

School honses, post-office, express, telegraph and age offices and stores are to be found at the vistage offices and stores are to be found at the lage, Mr. C. N. Baker is owner and proprietor the Santa Paula hotel, established since 1879. It is a first-class hotel and can accommodate all guests who seek reat and quiet and a pleasant home

### Hueneme

Is thirteen miles from San Boenaventura, in a southerly direction, the real running over a mesa rising gradually up to its highest part and descending to the Santa Clara river, at the ford six miles from either place. The country between the bloffs of the river is nearly level, covered with vast fields of grain and flax, with farm bouses clustered a stately groves of trees, while most of the fleids are unfenced and reach far and wide

Here is the "fairy bower of Colonia," owned by J. G. Hill, and the bandsome residence of Thomas R. Bard, to whom the writer is greatly indebted for the interesting statistical and otherwise instructive matter in this article. Mr. Bird has been first in futhering the interests of this section, and too much praise can not be given to one who has been of such public benefit at home and abroad.

At Hueueine can be seen the octagonal shaped United States light-house, built on a point about a mile from the town. A revolving light throws its illuminating, friendly beams guidea the weary mariner, and lights up the port at night to great advantage,

Huenemo is the shipping port for all that part of Ventura county lying contil of the Santa Clora, and was made a port of delivery by a recent act of Conlands tributary to this part comprise whom two thirds of the weable lands of the county.
The town was laid off in 1872, by the etherts of
Thomas B. Bard. A new fown thall was hald in
1883, and the village posicesses a public fibrary, contenning over one thousand volumes, and a public taming over one thousand volumes, and a proper reading room, open every evening, has been re-cently founded, and is supported by voluntary con-tributions of the residents of the town and vicinity. A Methodist church building was erroted last summer at a cost of \$3,500, the whole amount having been provided for. During the last year, a large irrigating ditch, sixteen unless to longth, was constructed, bringing water from the Santa Clara river through the lands of the ranchas Santu Clara del Norte and La Columb to a point near the town. It will be used only for irrigation alfalfa fields, but will be ample to irrigate but thou sand servs if over needed. Alfalfa does not need irrigation on these lands, except for the purpose destroying gaphers. On some fivilit of alfalfa near Huenome, which have mover been irrigatel, hay was out within the year 1882, vight times, having produced about twelve tons to the sere.

Artisian wells of excellent water, supplying sufficient quantities, in many cases, to freighte two bundred agrees, are obtained at the plus of one hou-dred and forty feet, all over the valley. One sup-plies the shipping and the town with water.

The wharf extends out eight hundred lest to | lies principally between the Ventura river on the | ridge with a scattering growth of live oaks upon it. twenty betilepth of water. Four large warrhouses, the two largest being each three hundred and fifteen feet long by sixly-slx feet wide, are conneeted with the wharf by rail.

Hueneme is imhopendent of railroads to a greater extent than any other place in southern California, for the reason that the large fleet of sailing vessels which trade between the lumber districts and the port of Wilmington, (from which all of Los Augnles and Arizona are supplied with building mate rial, etc.), come without ballast to Hueneme, the nearest port, where they can get a return eargo of grain to San Francisco at nll times; and owing to this circumstance the freight from Hueneme to San Francisco on grain and other products, is about one-half that paid at all other points in southern The freight from Hieneme, California. The freight from Haeneme, by schooler, is \$1.50 per ton, from San Buenaventura, hy steamer, \$3.00 per ion.

The productions of the adjacent country are varied. The statement herewith compiled from the books of the Hueneme Whirf and Lighter Compuny will furnish accurate information concerning the magnitude and variety of agricultural produc none of the adjacent country.

A sailroad is projected from Hueneme to New-hall by T. R. Bard and others interested in the vuarf, warehouses and town of Hueneme, and the ranchos Simi and Las Posas aggregating 140,000 scres, and La Colonia, 30,000 acres. If such a road be completed it will make connection at Neivhall with the Southern Pacific system, thus furnishing increased facilities in Arizona and New Mexico for marketing the large agricultural productions of this valley. But in view of the very great advan-tages that are offered by the oc an transportation Hucueme, the doubt is expressed whether the projectors really mean to make such connection, or that the road will be built as an adjunct to the wharf and for the benefit of the lands of the pro-

The following is a statement of produce received at Hueneme wharf and warehouses for each season, ending March, 31st, for the last eight years:

400			HOLE	352		-			Rye, "
01	-	12	10			:			Almonds, sacks
003	1.6	-	201	:	1	1		1	Honey, hoxes
32	100	12	12	:	:	-	1		Wultints, sa-ku.
16.6						111	853	-	Lanba
0:1				-	1		170		Calves
-				1	1				Cattle
167'8		REE.1	:	RII	167	651	1	10.0	Sheep
40.408		8 210	17.0	10,605	4,367	1000	4.830	2,625	Hugs
2,673	1.134	1,018	i	1	1	-	HEL	ERG	Ниу
10.134		0:0		1,648	1,011	1,502	1,771	1,382	Wool, bales
14	:	1:6			1				Tailow, harrels.
	-	-	de	* * * * * * * * * * * * * * * * * * * *	:	1	-	-	Butter, boxes
1.00-4	203	170	144		216		330	184	Hide6, "
576		10			707		96	19	Pelts bundles
1.739		661			157	150	308	204	Eggs, dozen
CGP'RI		2.911				:	11.12		Flux. "
805.8		100			116		100	5	Onts
0,663		100			F18		452	17	Виапи
3,520		31%			1,623	200	27:	500	Mustard, "
1,435	:				24	ì	31H	SNG	Potatoes, "
257,771		96,450			5,190		7,418	9,6,11	Wheat, "
968,301		6,220			NST TR		0.251	10,376	Corn. "
1,529,200	172,628	142,325	253,705	2:92,1:95	2385, 44H	N18 09	200,716	179 841	Barl.y. sacks
Total.	1883.	1882.	1881	1880.	1879.	1978.	1877.	1870.	
							-		

The village is flourishing, and besides the advantages before mentioned, there are three stores, a telegraph and post office, wharf and sleamship office, blacksmith shops and the Pioneer holel, of which John E. McCoy is the proprietor. The house is a good one, and is the only hotel in the ton n; twenty guests can be accommodated, and terms are moderate.

R. G. Livingstone is a wholesale and retail dealer in general merchandise, and this is a store where all will find it to their advantage to visit.

The school house is a prominent building, as it should be, and the churches are also pretty and well attended.

This little town is the shipping point of that large and rich agricultural valleys of Simi, Conejo and Santa Clara ranchoo, Plemant valley and the preducts of the wonderfully rich lands of the Colonia The town is situated on nearly level ground almost touching the sen, only a sandy beach intervening. The town, so allly assisted by the indensitable energy of Mr. Bard, will grow and expand us long as freight can be more cheeply floated on waterways then rolled or mileays. A mild climate prevails here; the sea breeze flows from the west, and this will, in the future, be a popular sea side resort for bathing, fishing and sailing over to the islande. One island, Amerapa, twenty wiles away, is especially attractive.

#### Northoff

The Ojai (pronounced Ohi) valley and rancho

west, and San Antonia creek on the east, and is about twelve miles from the sea port of Sea Burms venturn. This magnificent raucho of over seventeen thensand acres is correct mostly with brests of live and white onk, particularly around Nordhoff, which is in their midst in a stretch of the valley at its breadest part. Nordholf is prettily nestled in the bosom of the Ojni, and the subdirity of its climate is unequalled. The valley of Ojai is free from excessive winds, fogs and dust the number of cloudy days is small, and the average rainfall, fifteen inches. Here, where mothern civilization has commenced to assert its influence, is a climate where exercise is a delight, where sheep is "tired nature's sweet restorer," and where appetite finds a wholesome stimulus. Important as is this region as a pleasure resort, it is for more so from its agricultural and pastural industries. It is in the Ojai that the wheat crop reaches its

Thousands of acres of grain cover the entire basin, reaching for up the sides of the hills. Here, as around Nordholf, agriculture is the chief industry, and a succession of broad fields fill it with hixuriance. This valley has no industry not connected with agriculture. On the hills, all the usual north ern farm crops thrive remarkably; also the vine, fig and, in fact, all semi-trapient traits and flower The land is almost exclusively formed by those who cultivate, and, as is usual in grout agricultural communities, the people ure prosperous and even wealthy. There is an air of comfort about the homes, notably a great profusion of flowers, fine orelards and shade trees. Pontundious, home-like numsions, overlooking pleasant gardens, are by necessary uncommon. No irrigation is needed or at least used for the small grain crique. Artesian water is obtained at Northoff, but not in such quantities as at Huenome, on the Colonia rancho,



maximum of quality and quantity. The travelor along the roads, in all directions, sees wheat every-where, growing even smill forests, where, trees uppear to be just far enough apart to let in the sumshine sufficiently to keep an even growth of gruin. These trees are the white onks which grow in the valleys, while the evergreen live-onk loves the valleys, while the evergreen live-onk loves the steeper hillsides and bleep valleys. The scene approaches, in its perfect cultivation and prosperous air, the motel Saticoy and Santa Paum settlements. The Nordhuff hotel, Glan cottage and a number of other cosy cottages are open for visitors, and their proprietors make their guests at home, and by so deing induce the same people to return to them your after year. To those to return to them your after year. To those who have already visited Nordholf, it is not necessary to tell the story of its wharms; but there are many who have never been fortimate enough to

obtain a glumpso of its laveliness.

The apper Opai is a hasal-like valley, with its bounds resing in acclivitors to the foot of its anclosing hills, and separated from the main Opal by a

Is six miles northwest of and eighteen miles from the town of San Buommentura. Here are located famons Mantilija hot sulplur springs, which are slint in from minds by the surrounding model mountains. There are twenty two springs, and it is a remarkable fact that the unmarky of water dischargod nover varies. It is the same in the hottest and dryest mouther, and they preserve a mailerm temperature. Their effects are especially notable in cases of rheumatism, dyspelsia, irritation of the nuccus membrane of the strumch and discusses of the kichneys and liver. The springs are about lifteen hundred feet above the sen, and a little way beyond the Ojai valley. The pure mountain sir and the freedom from dust and mind are beneficial to health, and when added to the recuperative qualities of the springs, one leels as if they were second to none in the State. A lastel and a number of cottages are nt hand, as are facilities for hot or gold laths. The mountain streams abound in trout, and there is identy of game for the hunter,

In the cosy rullrys of the hills are the lookingers bonies, and lower down are farmers, dairymen and orehardists. The rineyards and apple orelards are marrels of hearty, and supply the resorts with fruits, honey and fresh butter, and the shrep owners supply juicy matten.
Shot Rancho

ls vast and magnificent in area, being ninety-six thousand acres. This is owned by Mr. Barker Cummere; Mr. Thomas R. Bard, of Huenendy being his agent. The scene is a wilderness of live onks; and rocks, massive as fortresses, environ Susame pass, and anything more wild in outural scenery could hardly be imagined. Fields of green wheat cover the wide plains, and here and there, when cover the wide phins, and here and there, though far upart, stand the quaint farm houses of this region. Sheep-rousing is extensively carried on, as alfibria is pleatful. The tunber lands are principally on the hills, and comprise forcels of oak trees. Ten thousand acres of ar-bunds are here awaiting development. Ten thousand acres of wheat or Irnit

There is an old rancha, called the Tupo, lying in the northeast corner of the Simi, originally a por-tion of it, and contains fifteen thousand acres; fifteen hundred being arable, the remanuler are aftern hundred being arathe, the reminister are grazing lands. Every variety of fruit known in this climate, from apple to orange and lenon, are grown in this fertile soil. There is a runygard forty years old from which superior mines and brandles have been made. The land is for safe by the owners, gentlemen living in San Buenaventura and Santa Barbarn.

El Conejo Runcho
Comprises 49,199 acres of black loamy soil, rich and deep, mexhaustible in fertility, and owing to its chevition above sen level and distance from the occur, it is all that could be desired for the production of wheat and rulture of the finest sem-tropical fruits and flowers. The grazing lands are among the best in the county, and over trenty thousand sheep are grazing upon the fine, wild pastures of the Conejo mountains. Bee runsing, wheat growing, etc., are nell practiced, and grain is plentiful. Stages afford a chemp and easy mode of conveyance to and from this locatiful and cal nable ranch, three thousand acres of which are for sule by Mr. Hamell,

La Cabrata

Is used the largest ranchos of the county, containing forty-five thousand acres, thirty-five thousand sand of which are tillable. It has abundant water supply through actesian wells, and its large grain helib are not urrigated. Rapid growths in oranges, lemons, figs, pears, English naturts, quinces and opticots are fully demonstrated. Hog raising is here found to be one of the most profitable oc-cupations. The binds are level, very few breaks being soon. The soil is rich and retentive of moisture to a remorkable degree. Land is for sale by Mr T R. Burd, thougout and principal orner, who with his usual liberality is offering superior inducements to renters and parchasers.

### Sespe Breeke

Is two miles from Santa Poula, and has been used Is two miles from Sauta Poula, and has been used principally for cattle, sheep and horses to room over. The hand is rich and fertile, and above the apper limits, on the little Sespo, is saturated the nil wells of the Los Angeles Oil Company. The oil is fifteen hundred fret below the surface, and is carried by pipes to the refuery of E. A. Edwards. The valley is predific in oranges, figs and other white next tender from choice semi-tropical fruits

#### Crosples

Tomoscul, or Cumulos rancho, is next above Sespe on the stage road. Oranges, a near glory springing from her soil, are noted everywhere as the finest found in the markets of southern California. Lemon trees are in bearing, and five hundred olive are in full hearing, besides forty thousand grupe rines, yielding annually about ten thousand gallors of wine and three hundred gallons of the lamons brandy known as the "Cumulos." Cumulos, the home of a noted Span-"Cumulos," Cumulos, the home of a noted Span-ish-Culifornian, Hou. H. F. Del Vulle, is most elegantly fitted up in all its appointments of buildings, and exhibits a greater variety of flowers, vines, etc., than any Spanish-American home seen in California.

Sun Francisco, Ex-mission Surta Ann, Guad-alascu, Cullegues, Sunta Plara del Norto, Las Pusas and San Mignelita ranchos, are all doserving of mention, but space will not permut

#### MINING AT BADGER HILL.

About twenty years ago, a party of miners com About twenty years ago, a party of miners commenced sinking a shaft on Shady creek near the town of Cherokee, and after going down 150 feet or so they abandoned the work. Since then foe Handler has purchased all of the surface ground in that neighborhood and is now preparing to slok a shaft at, or near the old one, to bed rook. Recent rich discoveries in the Badger Hill mian have given aboun to mining in that locality, and it is now said a tunnel will be commenced in the near future to lap the mining ground lying believen Badger Hill and Cherokee. It is said nuggets of large size have and Cherokeo. It is said nuggets of large size have been found in the Badger Hill mine.—Son Journ

### SANTA BARBARA COUNTY.

Its Climate - Fruits - Cereals - Sheep Business. Etc.

Principal Cities and Tusing Beserbied,

the the Traveling Agent of The Resources 1

Sania Barbara, one of the four semi-tripical countirs of California, is hounded by San Luis Obispo rounty on the north, Ventura on the cust, and on the west and south by the Pacific Ocean Sauta Barbara channel, and its many islands, lie at The general coast line stretches to the the south. eastivard from Point Conception, shaped by the Santa Yuez mountains, which rise to a beight of from 8,000 to 4,000 feet. North of the Santa Yuez range, is a parallel obnin known as the San Rafael range, which runs northwesterly. The fontlands are especially valuable as ranges tor sheep, cattle and stock generally, which graze here the year round. It is a fact that there is little or no land in this county which can not be utilized for воше ригрово.

Between the mountain rauges lies the lovely little valley of Banta Ynez, which widens out in postoral heartly, watered by a river of the same name, winding down to the Pacific Ocenn. This valley is on the line of the stage roud between Los Ahmos and and Santa Barbara. Here, within the past year, a new town has been laid out, and we mulicipate for this section a bright future. The lands lying in this and the Santa Maria valley are nuexcelled in Helmess of soil and variety of production, unless, unleed, the valley of Santa Barbara be superior,

At Gaviola, forty miles from Santa Birbara, the Santa Ynyz draws so closely to the ocean as almost to fortid a passage between. A mountain scream has cut a passage through the range, crowding among the precipitous rocks down a marrory delile With help oliffs on other side, the rushing torrent bounds into the sea; carrying builders in its arms it tears up the road, and adds a sutilizer and ragged grandeur in the scene.

From the top of the mountains a lovely scene lies spread below; a little valley whose waving crops of grain form a most pleasant contrast to the storal strip along the sea. A little gorge cuters this valley and over its summit falls a stream of water a distance of one hundred and twenty feet, making a picturesque, miniature You semile, A cool, dark ravine, called Nojo qui, presents a pleasant camping place on a warm day. Crossing a few more spars in the main valley of Santa Yuez, one comes to the mission crowned mese

The mission buildings stand on high ground, three miles from the beach, west of the town and shove it, looking towards the sea. In the morning, the sun's first rays flash full on the western walls They are an malienable benediction to the place; the longer one stays bere, the more be is aware of the benign influence upon his soul, and of the importance in the landscape of the stately pile. On the carridor of the numer court hangs a bell, which is rung for the hours of the deity office and secular aunounce that all is over. It is the duty of the brother who has watched the last breath of the dying one, to go immediately and strike the hell. Its sad note has echoed many times through the cor-The Sauta Barbara mission is still in charge of the Franciscans, the only one remaining in their possession. It is now called a college for apostolic missionary work, and there are now living within its ancient walls eight members of the order. One of them is very old, and his benevolent face is well known throughout the county.

There is the same element of romance in the history of the agriculture of Santa Barbara, as is seen in all else relating to the growth of Cathornia, The old Spanish missionaries proved the adaptabillty of its soil, both to fruits and grain. can ranchero, or herdsman, loltowed the missionaries, and great droves of horses and carrie mained over the hills and valleys. Grapes and olives were planted by them, and grow and flourished luxu-Until within a few years, no other grape has been cultivated but that domesticated by the old friure, and known as the Mission grape. This varies with the soil and culture, but everywhere it is strong and vigorous, both as a vine and trait bearer, and is rich in wine-making qualities. Neir and better varience of the grape are now cultivated, and the grape culture is pre-eminent among the profitable militairies.

Santa Barliara county is unexcelled for growing tine fruits and vegetables, which are produced throughout the year in the greatest abundance and variety; an astomsting and arreconcilable fact to the Eastern visitor, who finds these and a baliny climate in the months of January, February and March, the coldest months tu the East.

The soll is rich and is cultivated at little expense Labor is dearer than in the Eastern States, yet tood of every variety can be purchased as cheap, if not cheaper, than in the East, and the harvests produce a more generous profit. All this is accomplished in a country that winers and other managrants, in the proper days, cursed for atts barrenness, while they ate flour from Michigan and Indiana, sont here all the way from New York around Cape Horn, and

retailed at from thronly then to lifty cents a pound. The soil being roleanie, little moisture is required. and that being well annixed, but little irrigation is resorted to, the mater shed at the manufatus whiling

to the bountiful winter supply.

Large farms are the great evil in this rounty, as well as in others in the Sinte, and the great requirement is small farms and small tarmers, making bomes of comfort apon the land, and gradually, but surely improving the soil, as well as the condition of society. There are very few fruits and vegetables that may not be grown and developed here; thus making all independent of the markets, and omnistering to the wants and tistes of many non-resultants as well. Those farmers who means in love a home and maintain the selves for one year, have a living the ared if they full enter into varied culture, as orchard and garden go far to supply the table during the whole year in this climate. The culture of flax is espec-ually profitable; being yield a fair return; hops inbacco bring mext in importance, and the daity product paying handsomidy.

### Climite

The climate of Santa Barbara, for salubrity, can unt be excelled by any in the world. A record of the excather, kept by an invalid who spent a year in thus deligiblful spot, shows 310 phrasant, snuny thus out of 365. The heat is modilled by the cool air from the surrounding bills.

#### Olives.

The clive industry of southern California is an exceedingly important one, and its nil known and appreciated; ir tasle it, is a revolution to palates accustomed to the vile compound of rancid oncon-nut and cotton-seed ail. The alive will, plumutely, be one of the leading industries of this and uther counties in this section of the State, as vasi tructs of land, which are not suitable for orange, grape or grain culture, afford ample support to the thrifty and unexicting offer. Italy's olive crop is swirth, minually, thirty million dollars, and Caliinguis has as much land surted to the olive culture as Italy. It is estimated that the product of an nero of olives trees, in full bearing, will pay filteen hundred dollars per year if pickled, and two thousand shillars if made into oil.

The tree is propagated trum cultings, and begins to bear in the fourth year, and is in full bearing to the tenth or twolfth year. One hundred and ten trees can be plauted to an acre. Some of the orehards planted by the friars at the mission over a haudred lears ago, are slill bearing, in spite of neglect, and some have been known, in old countries, to have been in bearing several ceu-

The process of oil making is an interesting one. The olives are first dried in trays, having slate boitoms; tiers upon tiers of these being piled in a kiln They are then ground belween slone rollers, worked by lung wheels turned by house power. The oil thus pressed out is panied into large butts or tunks. Here it is allowed in standard settle three or four munths. There are functs at different levels in these tanks to draw off different layers of oil. After it has soluted sufficiently, it is filtered through aix layers of cotton batting, then through one of French paper before it is bottled. It is thou of a delicate straw color, with a slight greenish unt; not at all of the golden color of the ordinary market arriete. That golden yellow, and the thickening in a cold temperature, are sure proofs of cotton would in the oil; the pure oil remaining hinpid in a dygree of cold which will turn the adulteraled rils ridto and thick.

The almond has been cultivated to some extent, but is gradually being shandoned, as the crop is a disappointing one, uncertain in yield and trouble prepare. The nuts must be five times handled; first ploxed, then shacked, then draid, then bleached and again deted; after the first dry-ing, they are dipped by baskettulls into hot events, then poured into bleachers—hows with water, then poured into perforated instruction, Unit Umbrueath, there is a sulwhar fire to which the anis must be expested from fitte it to therety minutes, and then spread in a dry-The final gathering sends ing honse, market and makes, in fact, a sixth handling, and after all is smill and clone, the nuts are not good, being flavoriess in comparison with those grown in Europe.

The walnut orchard is a beller invostment, and no less a delight to the eye. While young, the wal-ant tree is graceful, and when old it is stately. It is a sturily bearer, and, if it did not bear at all, it would be worthy of an honorable place on home estates, simply for the gamal shade of its ample fullage. It is grown from the seed and transplayted two or three years old, allowing only twenty seven troes to the erro, 'Pliny bear when ten years obl, reach full bearing at fifteen, and show no signs of fulling at fitty.

Stroop-rathing
Is, on the whole, an industry that is said to be decreasing in the State. In 1876, the week crop of the State was 28,000 tens; In 1881, only 21,500 tens, This is the result, in part, of thetuation in the price of wool, but more of the growing idea of the greater certainty of profit from agreements and harmonitare. The east of keeping a sheep averages

forty-five lambs, worth seventy-five cents ruch, The dry season, however, often creates great havne aming the flicks, as in one season over a million sheep linve perished from starvation, and thus there s always the risk of lesing to one year, the profits of many.

Sheep shearing is carried on on large farms sheds, often sixty feet long, by tiventy five lert nide; mall pros of sheep surrounding it on three sides. Here, men brut over at every angle, the above being tightly beld in all possible positions, shears flashing, glancing, clipping; bright Mexican eyes shining, Mexicau voices jeating, the patient animats are suredily divested of their wonly covering. than ave minutes elapse from the lime a sheep is grassed, dragged in, thrown down and placed bet ween the shearer's kures, until it is set free, clenn shorn and its three punnd fleece tosard on a tuble out-side, where it is baled for shipment. A good shearer shears seventy or eighty sheep in a thry; men of extra dexterity shear a hundred. The Indians are famous for skill at shearing, and in all their hirge villages are organized shvaring bands, with cap tains, who go from ranch to ranch in the shearing

#### Curpenterin

The Carpenterla vallry produces Luna beans in great quantities, as the soil, and the peculiarity of the delightful climate, makes this valley their natural home. Parts of the valley are dotted with grand live oaks, which make it altogether a pleasant spot to visit. The valley is some fourteen miles south of Santa Barbara, and le reached by Allman's stage line which connects Santa Bularn with the S. P. R. R. at Newhall. Carpenteria has a hotel, ribere good meals are provided, a stago station, school-lunise, and a church, built by means of one lady's exertion and money, but in which all denominations may worship.

Maria valley lies in the northern part of Santa Barbura county. The valley is some twenty miles squaro, the soil being a light, sandy loam, producing rich crops of corn, wheat, harluy etc, without irrigation, although wheat is the principal product. Dairying is extensively practiced on the coast line of the valley. The Pacific Coast (Narrow Ouage) R. R. runs through it, Hins giving rail communication with Port Harford and San Luis Obispo. Almost in the center of the valley is located

#### Saura Mucin.

A pretty little village of 600 inhabitants. The valley and town is surrounded by hills on three sides, and the torce of the sea breize la broken by the sand dunes along the coast. In 1871 the town was laid off on a plat of 610 acres, with streets 100 and 120 feet mide respectively. Being supported by in large farming and stock country, this is a thriving, growing town; the outlying country being well able the number of inhabitants. to support three Hunes The town has the commedient public balls, a Masome halt, three chareles, three hotels, two doug stores, four dry goods stores, livery stables, hardware, tin, histness and blacksmith allops, markets and a mill. Schwartz & Bobce have lumber yard, and two large store-houses at the station for grain. A weekly piper, the Santa Mirria Times, is ably edited by S. Clevinger. A daily stage connects Sauta Maria neth Guadalupe, situated ten miles distant toward the coast. Real estate is active, selling at from \$15 to \$30 per acre, and prices advancing. Town lots, 25x140, sell at from \$1.00 to \$20.00 the front foot. Storrelt & Thornburg are the managera of the Santa Marta Volley Land Bureau, and mill be glad to turnish information relative to the real estate business to this county

The Santa Maria mil a have a canacity of eighty barrels per day. Their flour finds centy so as it is made by the new process; " roller system. This firm has been celabhaticif amer August 1882, and the mill is situated on the line of the rallroad. in a good location for receiving wood and shipping est and flour.

The Soilgwick Hotel is a temperatice honse, mil a good stopping place for travelers. Ayrrs & Hobson, formerly of Gaudalinge, also having a branch at Los Alamos, are deiders in musical instruments. books and all articles in that line, as well as in dinga, etc.

Among other business men, may be mentioned life follmring: T. Jones & son, doalers in sto hardware, tinivare, pants, picture frames, furm ture, muchimery, etc. Goodwin & Brrunt, east ilealers in tancy and drygoods, grecories vis., and Kreidel & Fleisber, wholeanle and retail dealers in general merchandiae. They wer the first mor chants in Santa Marta, having been established entry in the year 1878. They are also agents for Wells Fargo & Co.

The handsomest and most commodious store in Santa Marla is owned and built by Kulser Bros. A Co. The new store is eighty-two fout long and sixly-one feet wide, divided into a main store in the mer, twenty-nine by eighty-one feet, with two finished warerooms, connected with the main rooms by arches tiffeen by fifty-six feet; also conneeted with the store in the rear of the buthlin On the side are two aitting rooms, one for hidies and one for gentlemen, fitted up with grates and stationary mash-stands, for the accommodaonly \$1.25 per year. Its word wills for \$1.50, and from of pullrous. On the opposite shin are for each one humbred sheep there will be about

between. In the rear is the large and commodious office, with a private office councied. It is neatly thinshed and furnished. This fine building was precird at a cost of \$10,000 and is a redit to the architect, L. E. Bluchman, and the firm of Kaiser Bros. & On. They do a linemess of \$100 000 per nnum and it to annum and it to rapidly increasing. They have also a large warehouse for grain and produce, and hal in dry goods, notions, crockery, glass ware, clothing, boots, slices and hardware,

Mr. B. F. Bell is a dealer in atl kings of hardmure, stoves and tinware, biacksmith's supplies. brass gonds and Hungs, paints, oils ric. Mr. Bell from Butte county, has recently located here and to prospering in his southern undertaking,

Rubert Brown is the oldest established blacksmith in Santa Maria, having settled here in the suring of 1875, and is doing a probtable business tu general blacksmithing, wagon and carriage making. Runben Hart is another first class blacksmith wagne and carriage maker; he also manufactores Hart & Niebolson's champion gang plows, which are superior to any plow we have seen in our travels. It is to be eulerprise of such men as Mr. Hart, we we many of our improvements in useful machinery, Mr. Hart plan loss an improved barley crusher run hy steam power.

#### Los Alamos

ls situated on the line of the railroad, some twenty miles from Santa Barbara. This valley is long and narrow and very productive, and a desirable part of the county in which to locale. Les Alamos has 300 inhabitauts, and is a growing little city, being the terminus of the Pacific Coast Rulroad, and where the stage line begins leading in Sinta Barbara. A ride over the Gaviota mountains, and this stage line. 18 something world taking, for the scenery Lonipoc, also on this ronie, some ten miles from Las Alamos, is a gennine temperano

Los Alamos los o fine hotel, called the Union; it is well supplied with pleasant rooms and has a good entern

Langhl a Brothers are dealers to general merchambre in Los Alamos, and have a branch at Guadalupe, under the firm name of H. Laughlin & They have been established nine years, and are doing a good business

#### Santa Barbara

Is 300 miles from San Francisco, from which place the Pacific Coast steamers run twice a week, requiring thirty-two hours for the trip and chargin dollars for the fare. The population is 5,000, of which our-third are native Californians and Spani-The city is located on the brautiful bay limb which its takes its name, and is a very attractive city, viewell from any point of observation. Brst saw it from the decks of the steamer Orizaha, and the sight ivas charming. The Santa Barbara channel, smooth as an inland lake, is entered after Point Concepcion is passed, and after a sail of three or four hours, beautiful Santa Barbara is resched. The city is tastefully laid out, and all the streets and approaches are in keeping with the general uentness of the place. The main street commences at the stemmeship wharf, and the grade risia enough to insure good drainage. At the end of the street is situated the famous Arlington hotel. Upon this street is the only hare of cars which connect the Arlington and the wharf, passing by the College hotel and the numerous, beautiful and tastefully kept atores, that find a ready approparion by the resulents and many tourists who frequent the The other approaches to the city are, by the Pacitic Coast Stage Co,'s stages, that come over the Gavinta monutains from San Luis Obispo, El I de Robirs and Suledad; the railroad to Newhall, thence by Allman's stage line on Sau Bueus-ventura, the famous Carpentoria valley, and the coast line of the county, affording a romantic and picturesque trip. We have traveled over them, and find one as interesting as the other, and all worlby of patronage by the traveling public. It is in Santa Barbirn where those in search of health and pleasure concregate in great numbers from all parts There is hardly a town in of the Union United States that has so large a proportion of educated and rethred people also have the reputation of heing extremely hospitable. There is a free reading roum and a large of culating library, a glass ball shouting chib, archery club, etc. Besides the public schools, there is a well-conducted college Nose the town are hot sulphur springs with good limtel accommodations. These springs are much frequented by those suffering from rheumatism and printonary diseases.

The city contains a fine theatre, and many brick public buildings, consisting of a city hall, court house and public school buildings. There are two nowspapers, which in much to torward the interests of the city and county. These papers are well cilited by intelligent and agreeable gentlemen, and deserre a liberal justrousge.

Thy principal hotel in Smita Barbara is the Ar-lington; and deservedly so, as it is the best ap-pointed bitel anishle of San Francisco, 11 was designed and built with the idea of first-class pat-venage. The beautiful building occupies a square of five seres of ground, nievly lable out in lawns Dower-gardens and drives.

The Heontrick is a three-story butbling, opened In 1882, and has forty rouns which are light and arry. This hotel is the headquarters for commercial travelers.

The Morris house, kept by Mr. James Swift, is well appointed, and the attendants all that could be deared.

#### Bourding and Restourants

Mr. Geo. Dugdale keeps a cosy, hime-like hoarding house, and a similar house is under the efficeient supervision of Mrs. G. H. Liddings.

The Central residurant, and one kept by Mr. T. II, Basenberg, are both well deserving of the patronage they enjoy.

#### Bustness thooses

Crane's bookstore contains stationery, muslo, fancy goods, artists' materials, etc. Mr. Crane is agent for automatic school seats and deska, Roger's statuary, etc. 'Phis store has been established since 1877, and employs three men; during the holidays ten are in attendance. The stock is the largest to the city, and the store building is 10x100 feet in size.

C. C. Hant & Co., established in 1870, are the largest dealers in the United States in Lima beans, as 2,000 tons are handled by them yearly. The firm is located at the corner of State and Ortega streets, and deal also in choice family groceries, provisions, glass, wond and willow ware.

Smith & Johnston also transact a large grocery

The fine drug store of Mr. Edmondson contains many articles necessary, even in this healthful cli-Broth's squirrel porson ("Sure Death") is tor sale.

H. C. Ford is an artist of considerable merit, and has a fine collection of pictures.

Mr. Woodbridge is spoken of as being a careful, houcrable real estate agent, who does all in his power to satisfy those who deal with him.

G. B. Pendola and G. B. Parma have large liquor establishments, and keep on hand domestio wines,

Mr. Walcott is an energetic and successful hardware dealer, as are also Roides & Git.

Mr. Perkins has charge of considerable of Col. Hollister's property, which he desires to sell in amaller farms. Mr. Perkius is a wide awake, intelamaller farms. ligent man, and quite successful in the land busi-

Large interests are often carried on in a quiet way: an example of which is the abalone export. There are forty tons of abalone meat or, as it is called, Chiuese nysters, ahipped annually to San Francisco and sold for \$20 per ton. This meat is prized as a great delicacy by the Chinese who pay five ceuts a pound for it in San Francisco.

#### The Beach.

This part of Santa Barbara is quite popular at all seasons of the year, as there is most enjoyable buthing here, there being on surf, and the water is always warm and refreshing.

### El Montecilo

Is properly a part of Santa Barbara, though lying eastward in a valley reaching to the loothills. In this little valley Col. Dinamore has experimented this little valley Ool. Dissente has experimented with the banana, and proved it a grand success. Water is abundant throughout the valley, and lands are cheap here at prices named. All senitropical fruits thrive well and are remunerative.

#### Islands.

Three of the channel islands are assessed to one company, and are largely devoted to wool growing, as are all the islands along the coast. The surface a rugged and grazing good. Small schooners are the means of communication between them and

### Lighthonses

There are two of these on the coast, the one at Point Conception being a brilliant Fresnel revolving light, flushing a white light every half minute. The other is near Santa Barbara.

Much more might be written of this heantiful and fertile county, but farther notice must be postponed to some fature time.

# FRUIT TREES!

Apple, Pear, Peach, Plann, Approach Etc. Roof Grafes. Seedlings, Cuttings, Seedle Etc.

LARCEST STOCK IN AMERICA!

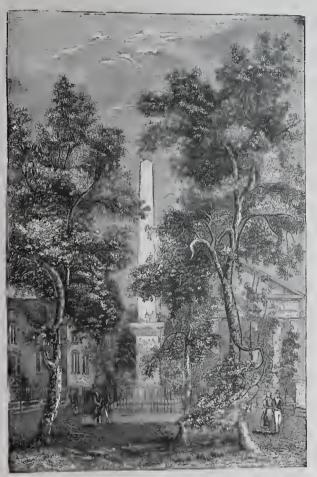
8 If you don't would traytheap this year send for Price List and get posted for another serven.

E.MOOOY & SONS, LOCKPORT, N.Y.

#### COUNT PULASEL

Count Casimir Puloski, a Polish soldier, horn in Lithuania, March 4th, 1747, died from a ge received in the attack on Sacannali, Oct. 11, 1779. | He was the son of a Polish moldeman, the starostn of Wareck, who was the chief organizer of the confederation of Bar, which was signed by his three sums (1788). Cosmic, who had acquired military experience in the service of Duke Churles Courtland, entered heartily into the war for the liberation of his country. Forcal to cross the Duiestor, he took refuge after the storning of Bar in the mounstery of Berditchey with three handred men, and after sustaining a siege of several | weeks capitulated on the condition that the garri-

tinguished himself, he was appointed by Congress commander of the cavalry with the rank of Briga-dier General. After five mouths he resigned his command, and entered the main army at Valley Forgein March, 1778, where he proposed to organize un independent corps of cavalry and light infantry, to which Congress assented. By October three hundred and thirty mon-were in this corps, which was called Pulaski's Legion. With this he marched, in February, 1779, to South Carolina, reached Charleston May 8, and vigorously opposed the projest of surrendering the place to the British army then before the city. On May 11, he attacked with his legion the British advance gained, and was repulsed with considerable loss in killed, wounded,



## PULASKI MONUMENT-CHRIST CHURCH, SAVANNAH,

crates; but as soon as he was sot at liberty he re fused to keep a promise extorted by force. Jour-ing his fitther in Moldaym, he made incursions across the Dniester, and attacked the Russians and fortified posts within the Polish borders. He carried on a desultory warfare in victious parts of the country, until an unsuccessful attempt to gain inftor largering two days, and was larged in the

son should be set at liberty. The himself was not freed until be had pladged himself to bear proposals for a reconciliation to the chiefs of the confedurable Count of Esting and the Americans preto the American lines. An September the French under Count (l'Estang and the Americans are pared to besiege Savannah. On Oct 9, it was determined to carry the town by assault. Pulaski wies placed at the head of the French and American entuilry, and during the engagement received a mortal wound. He was laken on board the brig Wasp, which by in the Savaniah rivey, died



## CALIFORNIA HORNED TOAD,

guestis, in 1771, chosed a sentence of outhwry and death to be passed against lam, on the ground light to be passed against lam, on the ground light to be passed against lam, on the ground light of Georgia in Savaanah, -. Incress on Cyclopedia. The condition of Austria, Russia, and Prussia for the compact and division of Poland was soon after completed, and resistance become honders. Pu-liski, who hiel lost his fathers and brothers in the liski, who had lost his fathers and brathers in the war, made his way to Turkey, and afterward event to France, where he offered his services in the American cause to Franklin. With high recom-mondations to Washington he arrived at Phila-delphia in the sommer of 1777. He at first served in the army as a voluntear; but four days after the battle of Brandywine, in which he dis-

possession of the purson of King Stunishas Anseriver. A monument tehis memory voted by Con-

### THE CALIFORNIA HORNED FOAD.

This htile fellow is himoless; and the linhous catch and use from us an unfolote for rheamatism, taking the tool by the tail and gently inpling the parts affected; their spany covering creating on the surface of the skin a counter-creatent, said to be quite officiencies -for the Indian.

Subscribe for The RESOURCES OF CALIFORNIA.

# ESPAILISUMENT OF THE FIRST COPPON FACTORY IN THE STATE

A mriter in the Morning Call fornishes that paper with the following concerning this new en

terprise:
The absolute need of maintactories, to properly develop the resources of the State, is a matter that has been the theme of many my article in the news-papers of the State; yet, while the conclusions papers of the State, yet, while the conclusions arrived at have invariably been admitted, only in a few instances have they been acted upon. Every manufactory established has been the came for run-gratulation, and especially has this hern the case where the enterprise has been the first of the kind imaggirated here. A short time since, the certifi-cate al incorporation of the California Catton Mills Compuny were filed with the Secretary of State, The objects of the company are to spin and weave cotton and to manufacture the usual articles made command to main metric the menal articles made in cotton mills. The capital stock is \$500,000. The hoard of directors is composed of the following: George W. Beaver, John Center, S. W. Rosenstuck, L. Dinkelspiel, Capitain J. C. Ainsonarth, E. C. R. Dinkenper, Capaint 3. C. Amaterin, 2s. C. Sessions, V. D. Moody, A. Chuhui and W. E. Miller. That the new onterprise is one of great profitse is amply exemplified by the tight character and financial standing of the members of the directory. The factory will be located at Oak and. The tract transferred comprises five acres, situated on the line of the local railroid, 369 feet mesterly from Park avenue station, and rising about midway between Park avenue and the basin upon the estuary. The company have also acquired one acro upon the water front adjoining the mill site.

George W. Beaver has been chosen president o the board of directors. In a long conversation with him, in regard to the exterpuse, the following particulars were obtained. The company are de-light d with the site they have secured for the loca-tion of the mills, which was partly acquired by donation and partly by purchase. Several other liberal propositions for siles were made by other citizens of Oakland, but the board of directors, after carefully considering all the points essential to the success of this enterprise, beamd the one selected to most available for their purposes. At the site selected, the company will have equal facilities for shipping either by water or rail. As Mr. Beaver remarked, the company could not have secured a bitter location if they had gone out with \$15,000 in twenty dollar pieces than this which has been promised at an entire onthey of \$3,500. The machinery will be observed at once. The monve power, and such other machinery as can be, will be made here, but the looms and spinning muchinery will be impurted from Europe. As it will take a veral months for the muchinery to arrive from Europe, work on the buildings will not be commenced namediately, but they will be really for the machinery when it does arrive.

The company will receive its supply of cuttou The company will receive to supply of Coton primarily from Texas, which produces one-stall of the cotton erop of the United States. There is cutton grown, to some extent, in this State. Messrs. Haggin and Tevis have between 200 and 300 acres in cotton on their property in Tulare county, and Mrs. Strong, widow of Calouel Strong, the original Mrs. Strong, widow of Colouel Strong, the original cotton raiser of the State, has grown 190 hales of cotton on her ranch, near Mercell. The establishment of the cotton mills will attract more attention to the growing of cetton bere. There is also considerable cotton grown in Mexico, and quitto a quantity comes here amoually from Tahini and the Sauth Sea I lands, which can be made available. Texas, however, will formed the bulk of the raw material for the mills, and as that State is hit bulk ray cash, as the great of the region of the region in the freight. and as there is a material difference in the freight on raw and manufactured goods in favor of the former, the prospects are certainly good.

The gentleman who has been scenred by the company as its manager, has bud twenty-one years company as 11s in suggest not one work of votes covered in the business in 8-orthod, is a thorough mechanic and in practical man. About 450 hands will be employed when the nulls are in running with the comployed white labor will be coupleyed, the major purtion of which will be gots.

While the projectors admit that they labor under

While the projectors smart that the read-indeed the consume some time termin their labor, yet they have no doubt of the ultimate snows of the enterprise.

#### SHOUTH, A MONTH,

To show what San Bernardino is doing in this line, we will refer to a statement made by Lienteunut Governor Daggett while paying his office a visit a few they algo. He stated that the bullion clerk of the Bank of Califorum, f. P. Allen Esq., told him that the yield of silver hallou from this county for the past month was over \$300,000, greater than the yield reported from the State of Nevada dui-ing the same time. This speaks encouragingly for our mining judistry. As the amount of bullion is on the increase, and its only a few of our manes are just beginning to be developed, we can reasonaridy look forward with conndence to rymbil of twice that amount of hil-lion per mouth before many mouths shall pass. - Calico Pvint.

### THE RESOURCES OF CALIFORNIA.

JOHN P. H. WENTWORTH.

EDITOR AND PROPRIETOR.

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...... \$2 per Annum.

SAN FRANCISCO ..... DECEMBER, 1883

### READ AND CIRCULATE

When you have read this paper preserve and load it to your nelgibiars, or send it own Chendlo the Rosbern, Wasterne Soud en States, Choudh, England and Cord ental Europe, who will apply the the inform em States, Chandla, England and Conti-pental Europe, who will while the informa-tion Iteamins, and might by Highly become or outd intelligent, infusiving formers to settle in Culffornia.

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THE SILENT RIVER.

### BY J. P. B WENTWORTH

The river, upon either side, overspread almost to its center with the graceful lolinge that luxuriates there ull the seasons through, as it quietly moves along on its meandering way, disturbed only now and then by the fish that leaps from its hiding-place to bask, for a moment, in the mys of the morning sun, reminds one of the proceful, quiet life of him who has never consented to become the slave of society and imaginary want. The river, upon whose bosom it is pleasant to public the Indian canoe, stopping only to plack the rich perfumed hily for some loved heanty-it may he the dusky maiden of the forest-or seme beautiful creature of that other race, equally natural io form and mind, an escape from society, one who has walked with nature and God, never once forgetting how sweet it is to be natural in all things, ever calls to mind the heanty there is in quiet retirement. Glide on heautiful river, and may the sweetness of your song charm others as it did me, when silently, in the birchen canoe, I drifted with yon, ruminating and hoping that no rade materialist would ever be permitted to disturb the melody of your song that so completely lulled the cares and unxicties of noisy businesslife and the hubbuh of society,

#### DOLORES AND OTHER POEMS.

We have received from the publishers, Messrs, A. L. Biocroft & Ca., 721 Market street, the above named work. It is a book of 536 pages, neatly printed and bondsomely hound, containing the porms of Albert P. KERCHEYALO The volume also contains several pages of paems by his gifted daughter, Miss Rusalin W. Kenemeyer. The author, ALBERT F. KERCHEVAL, dedicates the work thus gracefully: "To thegrand army of Conformin Proneers, the great 'silent unijority' gone before, and the fast dwindling remning soon to follow, this volume is most reverently and offertionately dedicated by their comrade the outhor !

Every pioneer in California ought to seenro a copy, for in it will be found many pursus descriptive of seemes familiar to him. place the unther of these parents ahead of may by rich rock, so report says, is being extracted We of the Colifornia poets, which is awarding a high breed of praise,

#### ORDINARY

HATCH, Died in Oaldand, November 22nd, and donly, Mrs. Minnie Wentworth Hatch, wife uf Frederich A. Hatch, aged 21 years.

The above minouncement came to many hearts, both in this city and Oakland, with a suddenness that was shocking. The day before her prostration was passed with her family in San Francisco. On this ovension she was very cheerful and happy. In less than forty-eight hours thereafter she by pullid in the cold embrace of death. Minnie possessed a well an tured, womanly mind for one of her tender years. She was keenly alive to all the responsibilities of a ascful Christma life, and felt a pride in the uniternal relations she soon would have assumed. She was chearful and happy in disposition, and made sunshine for mound her The kind-beauted, griefo.11 stricken hustman has the warm sympathy of a largle circle of relatives and friends.

The following we capy from the Oakhud Daily Tracs:

### MIIS. MINNIE WENTWORTH HATCH

#### à large Attendance et Her Funeral Yesterdiey.

The Incernl of Mrs. Minnie Wentworth Hatch, wife of Frederick A. Hitch, of 1064 Fourteenth street, and a commission merchant doing busimess in San Francisco, took place at the First Biptist Church in this city yesterilay. There was an informal service at the residence, and the ceremony at the church was of a very elaborate character.

There was hardly a vacant sent in the church nt two o'clock, the hour when the exercises began. The casket containing the remains was horne in by six pall-bearers and deposited in front of the pulpit. The casket was cevered with white satin and upon it were rich and fitting floral designs. Two pulpit was profusely and tastefully decorated with flowers, smilnx and ivy, and similar depended in graceful loops from the choir gillery. Jap micas, violets, pansies, marguerites und carnations were noticed among the flowers composing the Stars, crosses. wrenths, broken columns, pillows and other devices with which the whole front of the pulpit was adorned. The pew usually occupied by the deceased and her family was vacant; it was burdered with intertwining lines of black and white crape, and woven in with this horder of crape were flowers favored by the departed -such as white roses mult smilax.

The services were conducted by Rev. E. H. Gray, pustor of the church, assisted by Rev. Pond, pastor of the Mission Congrega tional Church, Sin Francisco. The decensed had been a member of Mr. Poud's church. The regular chair of the church was superseded for the occasion by a quartette, who sang beautiful and timely selections with exceeding frehing and expression, composed of Mrs George W. Wright, soprano; Miss Allen, alto; C. E. Lloyd, tenor; and George F. Wustell, bass.

Mr. Gray, the pastor, preached a very pathetic unil toucking sermen. During his dis-course he referred frequently to the Bible of the deceased which he held in his hand and in which were many passages she had marked. He was followed by Mr. Pond, who testified how sincerely his congregation deplored her naturally death. Atter proper, Pastor Gray an and won blow tresent would now have an opportunity to view the remains, a permission which almost the entire great throng availed themselves of Succeeding the last gaze, nudertaker Hamilton affixed the lid and the remains were transferred to the bearse by the pull-bearers: J. H. Poml, C. R. Ford, W. Johnstone, E. F. Crossett, of San Francisco, and L. S. Burchard and Frank Adams, of Oakhaal,

Deceased was but twenty one years of age, and notably beautiful. Last Wedvesday night she was suddevly taken with internal tiemorrhage and died next morning. Sho was the daughter of J. P. H. Wentworth, of Sin Francisco, editor of the Resounces of California. Among the many friends and relatives present of the funerat was her brother, Samuel A. Wentworth, ticket agent ut El Pasa, Texas, The remains were temporarily deposited to the receiving vault at M anatam View Cemetery.

### QUARTE GOLD.

#### SOME OF CALIFORNIA'S PHODUCTS. STABLE

In agricultural pursuits our chief reliance has been on wheat; and it will, without doubt, continue to be our principal staple, though a unre diversified system of culture is beginning to prevnil, more and more, to the great advantage not only of the farmers themselves, but also of the general interests of the State. The area of land under wheat culture, during the past season, is estimated to have been about three and a half million acres the yield of which we assume to be not less than from fifty to sixty million bushels. Of this quantity, fully three-fourths will be exported, furnishing un amount of freight sufficient to lond several hundred first-class ships. Assuming prices to average those received for last year's crop, the value of the late harvest will not fall much short of \$50,000,000. Our notural advantages are such that, notwithstanding the great distance from the principal wheat markets, California can compete, successfully, with Russin and the Atlantic States. A larger area of buil is every year being planted with a variety of grain. The annual crop of burley amounts to from 15,000,000 to 18,000,000 hushels, and of oats to about one-fifth of that quantity, with more or less rye, buckwheat and Indian corn.

In consulering the interesting and justructive history of the rise and progress of the different industries of this State there is no part of it more so than the record of the product and export of the cereals. Less than a thir.l of a century ago the vast plains of this State were regarded as worthless, except for pasturage for sheep, caltle and horses, These lands were then claimed and possessed by a pustoral people who managed to get a very poor living from possessions that spread out as far us the eye could see. The idea that these plains were then, or would ever he, of any value for whent, barley, onts, or any other grain, had not entered the mind of man. To-day, they are the hest wheat-producing sectious in the world. A third of a century ago, the eyes of the world were turned towards California to see the stream of yellow gold that was then flowing out of the Golden Gate in payment for breadstuffs that were then coming in return, To-day, the thing is entirely reversed. Notwithstanding that we are still among the largest producers of that gold, we are, at the same time, producing and shipping out of the Golden Gaten larger amount of golden wheat than is produced and shipped from any other State in the Union, and, in return for it, we are shipping in the very gold that our mines have produced, but it comes in the shape of English sovereigns.

Our woot interest has become one of grent value. The clip of the year just closing is es timated at about 40,000,000 pounds, and its value will probably amount to from \$8,000,000 to \$10,000,000. Judging from present indications our products, in a few years, will include cotton and silk, experiments in the cultivation of these staples having, thus far, been attended with encouraging results. Our wine interest is increasing in growth and value year by year; and from this industry Cilifornia will reap au immense amount of wealth in the future, This year's production is estimated at 15,000; 000 gallous; a large amount of brandy also has been distilled from grapes. For fruit growing, no part of the world has such advantages as California, the variety of soil and climate in the different sections being suitable for all the choice varieties. Hitherto the great bulk of this crop has been allowed to rot and run to waste, but with the estublishment of fruit canning factories this loss can, in the future, be entirely avoided, and horticulture be made a great and profitable industry

#### SWEDISH DATRIES.

As there are a number of dairies conducted under the Swedish system now in operation la Sonoma, Marin and other counties, we give the following plan as related by an experienced Swedish dairyman: The milk is set to collect the eronin in tin cans twenty inches deep, and halding about five gullons such. The cans are not set on shelves, but in large vat-like receptacles through which cold spring water is kept constantly running, the cans being sunk in water to the top of the milk; thus keeping the temperatue law and perfectly uniform. This system has of late been adopted in many from the Patterson mine. The quartz is said of the best duiries in the Stale of New York.

#### CALIFORNIA CHEENE.

In our State, where there are greater advanluges and facilities for manufacturing cheese than can be found elsewhere in the world, it is difficult to understand why there is not, at least, enough made fer home consumption, here let us remark, parenthetically, that the sooner our people drop their prejudices against home manufactured goods the better it will be for the welfare of the country. It has been demonstrated, time and again, that almost every article which is imported can be raised or mannfactored at home. In regard to cheese, notwithstanding it is a well known fact that a better article can be made here than in any other part of the Union, enstern manufac. urers ship considerable to this State. Our choose makers have this competition to centend against, and the result is seen in the accumulation of stock. Cheese is almost as low in price as butcher's ment; and although it is known to be far more natritions, it is not as common un article of food here as it is in many other countries. It is our duty as good citizens of California to use all honorable means to discourage the importation of cheese. had economy to send thousands of dollars out of the State for such arricles as we can and do produce at home. It has been very pertinently usked, why we do not try to create a foreign demand for it: We think the suggestion is a good one. In Great Britain, the amount of cheese, annually produced, occording to competent authority, is about 350,000,000 pounds. against a consumption of nearly 600,000,000 pounds. The State of New York alone exports, annually nearly 140,000,000, pounds. California cheese is fit to be exposed for sale in any of the markets of the world, Place samples of it on exhibition, in any of the markets of the old world and we believe but a little time would elapse before a large demand would be made for it, as there generally is for everything sent from this Stale. The value of cheese as food is not fully appreciated in the United States. It has been stated that a chemical analysis shows cheese to be rich in fats and much richer in flesh forming matter than flesh itself, which is largely water. And yet a round of cheese seldom hrings more than a pound of ment, although chemistry gives the former the preference as a nutricions food article hy nearly two to one. In the United States the annual consumption of cheese, per capita, is only about five pounds. In Great Britain it is more than double.

#### COMING TO STAY.

One of the evidences going to show the future prosperity of the State, is the fact that those who have homes here propose to stay. The almost invariable observation of those who have made visits from this, the State of their adoption, to the their early homes on the other side of the mountains is, that "they never want to go hack there to live." Califernin is no longer regarded merely as a good place to come to for the purpose of making a speedy fortune to he spent and enjoyed elsewhere, but it is rightly looked upon as the most delightful and desimble place for a home The thousands who are now flocking here come to stay. Those who have means set themselves at work to establish Those who come without menus look forward to the time when they can own a house und a few acres of land. The effect of this influx of home scekers will be to break up large land truels, and cause a more thorough cultivation of the soil and the development of the varied resources of the State.

As the interior papers are generally calling upon the journals of San Francisco and Sacramento cities to direct the incoming title of immigrants where to settle, we will state that there are emulies in every section of the State containing thousands of acres of public hamls, rich in soil, well timbered, abundandy watered and a climate that con not be surpassed on the cootment. One special attraction of California is, that its climate is so mild that cheap houses are comfortable in winter, and in summer people out live comfortably almost unywhore, both day and night, if they should but he owner of two or three blankets. We have a grand Stale, with wonderful resources and room enough for all of the thousands who are coming to it. In the language of a Sir Knight, who repently visited "It is a marvel that more Eastern people, who have the means, do not come to Culifornia and take up their permanent abode.

#### FRUIT GROWING IN CALIFORNIA.

From insignificant beginnings the growing of fruit in this State has assumed the importance of a leading industry. The early pioneers will remember the avidity with which they pounced upon the few upples or pears that in the "winter of Forty-nine and spring of Fifty," found their way to this markel from Oregon. There was no haggling about prices in those palmy days, when coin was scarce and gold-dust was the circulating medium, and the fortunate possessor of a consignment of fruit found no difficulty in disposing of his stock at any price he chose to name. The few grapes grown at the different missions served only to whet the appetites of the gold seekers for the fruits to which they had been accustomed in the "States," and apples and pears from Oregon, bananas, oranges, limes and melous from Panama, Mexico, Tahiti and Hawnii, found a ready sale at phenomenal prices. For several years no attempt wa made, of any importance, to cultivate fruittrees in this State; the minds and energies of the people were directed to the all-absorbing pursuit of gold-gathering; they were oblivious to the fact that, in orchards of golden fruit, lay hidden a mine of wealth far richer and more certainly productive than any which mother earth concealed in her bosom.

Quick returns and large profits was the motto of the times, and even when the attention of a portion of the people was turned to the cultivation of the soil, but little thought was given to fruit-culture, as grain and vegetables vielded a prompt return upon the capital invested in raising them, while the cultivation of fruit trees required years of patient labor before any profit could be realized from that branch of industry.

Some there were however, who had sufficient sagacity to look beyond the cupidity of the honr and plant orchards of various fruittrees, more as an experiment at first than with any idea of profit to be derived from them. It was soon discovered, however, that the soil of California was peculiarly adapted to fruit cul-The trees already planted grew with astonishing rapidity and vigor, and bore fruit at a much earlier age and in greater profusion than in the Eastern States. Seeing the success of the pioneers in this enterprise, others entered the field until soon every rancho had its incipient orchard. Many, unskilled in fruit culture, paid very little attention to the quality of the trees planted, and, as a consequence, the market, in a few years, become flooded with inferior fruit. No railroads existed in those days by which the surplus could he shipped to an Eastern market, and fruit drying and cauning, as at present practiced, were unknown arts. Hundreds of bushela of fruit were fed to hogs or allowed to rot upon the ground; the farmers became discusted. and many of them cut down their orchards for firewood, and sowed the land to grain or planted it with vines. Others, however, learning wisdom from experience, went scientifically to work, and, hy a judicious system of grafting and hadding upon the vigorous native stocks, of well known and atandard varieties, the most gratifying results were realized. The completion of the railroad across the continent opened a new field of enterprise for our orchardists, and the system of canning and drying fruit, sinca adopted, has reduced the loss on crops to a minimum figure, and enables the intelligent grower to utilize a large amount of hruised or inferior fruit which, in the abseuce of these adjuncts, would be utterly worthless. What is now needed, in order to make this industry permanent and remunerative, is intelligent and united action on the of frait-growers, in experimenting as to the best and most profitable methods of cul-ture, the finest qualities of fruit to be raised, methods of planting, grafting and hadding, of drying, canning and preserving, cost of production, transportation, etc. Another importaut field of experiment is, as to the means of exterminating the many frugivorous insects so destructive to orchards.

A step in the right direction has been taken Fruit-Growers' Convention which as sembled in this city on the 20th ult, and was composed of delegates from all parts of the . Steps were taken to form a State Associstion, to be called "Tur Fnuir Gnowens Association of the State of Catifornia having for its object the collection of reliable information relative to the condition and value of the fruit crop in this and other countries, | grow to better perfection in a cool climate.

and to protect the interests of its members. An executive committee was appointed, consisting of A. T. Hatch, Wm. Johnston, L. W. Buck, W. H. Aiken, F. C. De Long, A. Block, and W. H. Jessup, and this committee was invested with full power to carry out the objects of the association and to prepare rules and regulations for its government. membership is fixed at \$10.00, and each member is required to contribute such information relative to the subject of fruit-growing in his locality and elsewhere as he may he able to

The association will again assemble on the first Tuesday of March, 1884, when it is hoped a permanent organization will be effected Considerable valuable information was elicited from various delegates on matters of vital importunce to the orchardist : as per example ; the hest stocks upon which to graft various kinds of fruits; the importance of preserving orchards of standard fruits; fruit pests; orch ard canning etc. The "free box" question was freely discussed; the convention being nearly quantimous in the opinion that this system should be adopted, as the boxes when returned were often infected with pest germs. and the spread of the codlin moth and other fruit-destroyers was often attributable to this source. Dealers will also pay hetter prices for fruit when packed in fresh, new, clean boxes, than when put up in old, worn and soiled ones, no matter what the quality of the fruit may be. The committee on the professorship entomotogy in the State University, continued, and the thanks of the convention were voted to Professor Matthew Cooke. The convention was in session three days, and adjourned to meet in San Francisco, in 1884, at a time to be fixed by a committee of the State Board of Harticulture.

We shall be pleased to publish, at any time, communications from fruit-growers relative to this branch of judustry.

#### CALIFORNIA'S PROGRESS.

Probably no other State in the Union enjoys an equal share of general prosperity. rapid growth of California in wealth, population and refinement is a matter which should he gratifying to every citizen. Whatever may befall any private enterprise, or affect adversely the temporary interest of any particular locality, we shall always have the consolation of knowing that others are prospering. Here, we see towns and counties, from Siskiyon to San Diego, all filling up, and property in them rapdly increasing in value. Within this area almost everything known to the vegetable kingdom will grow and attain maturity. Between the ocean's beach and the summit of the Sierras almost every metal known to the mineral kingdom is found. What then, may be asked, should be the future of a country so favored In the language of another "a country with vast resources as California possesses, should be the paradise of earth and its people ought to enjoy the highest degree of happi-Perhaps ness vouchsafed to mortals." country in the world has within itself more of the necessaries and luxuries of life than California. A distinguished writer recently said. in an articlo iu one of our contemporaries: "if there was an insurmountable barrier thrown around our State we should not want for meat, drink and wearing apparel. If compelled to do so, we could draw on our own resources not only for our staples, but the lux-uries of life." Suid he "aome day we shall learn to wear our own fiannels and silks, eat our own fruit and vegetables, and drink wine pressed from our own vineyards; and when we have done this we shall not send the gold of our mines abroad at the rate of thirty to forty millions per year." The future of California is a plensing theme to dwell upon. Turn the subject as we may, it has no dirk repelling

### A HOME MARKET.

The Yreka Journal states that fruit of all kinds raised in that section the past season found ready sale, and that orchards and vineyards are receiving more attention than for-merly. The prospects of selling fruit raised next year look very promising. It thinks that when the railroad shall be finished to that county, Siskiyon fruit will attnin a high reputation abroad, and be in demand as first class, especially apples and the bardy fruits which

#### WINE MAKING.

There is no doubt that the wine making interest of this State has received a greater impetus during the past two years than any other industry. The editor of the Chronicle, of this city, is informed by one of the most intelligent wine growers of California that within twenty years it will be greater in many of the agriculturnl counties and occupy the attention of more people than wheat growing. This, we believe, is the general opinion in all parts of the State Oalifornia wines are rapidly becoming known. and it is the opinion of good judges that the demand for them will increase from year to year. It is highly gratifying to learn that the wine growers have a fair prospect of being well paid for their energy and palience in waiting so long for a paying market. Our grape crop for the current year has been very large and of fine quality. We believe that vineyards will stendily increase in value and become one of the best paying industries in the State. There are millions of acres of cheap lands which can be successfully transformed into vineyurds. This industry has not attained its present prominence with out encountering many obstacles and difficulties. Our wines have, within the last year or two, received many acknowledgments of their metits. Several prominent wine sompanies have been engaged for years in developing the quality and spreading abroad the merits of California wines, for which they are justly entitled to a large meed of praise. It is said that California has vinicultural land enough to make as much wine as France, Gormany, Hungury, and Spain combined can produce: and there is no doubt, among those who have given the subject the closest study, that she will at some future time out rank every other wine making region in the world. Our foot hills, which are held at less than one tenth the price of land in France, have a vust productive capacity, and seldom fail to yield large crops of every variety, but they are specially adapted to the growth of grapes. As the State increases in population and transportation facilities, so will the culture of fine grapes and the manu facture of wine become more important and remunerative.

### COTTON GROWING.

Concerning the production of cotton in Tulare Valley, the Bukersfield Californian, of recent date, has the following remarks:

Cotton growing here has long stace passed beyond the domain of experiment. A considerable number of bales have been among our exports for several years past, and will continue to be as usual this year. It may be planted here the beginning of April. Picking commences the last of August or the beginning of September, and may be continued until Christmas. The staple is a snowy white as there are no rains or heavy dew to stain it. We have vary few here who are acquainted with the crop, or no doubt it would be grown quite extensively, as it is easier managed, with perhaps the exception of picking, than in the Sonthern States. It can be raised to greater advantage and profit by poor men, as all the operations, up to ginning and baling, are oonducted by horse and handpower, and in the nature of things always will be. Since the war innumerable poor men in the South have be Since the war come very prosperous through the labor of themselves and families in cotton growing. The establishment of these mills will no lonht he the means of stimulating this branch production here. Through inducements that will be held out by means of this enterprise, many cottou-growers will come among us. All the cotton grown here, thus far, has been purchased by the woolen mills of this State and Oregon at remnnerative prices.

### CHEAP LAND.

The papers of Humbott, Trinity, Siskiyou and other counties in the northern section of Oslifornia state that land can be purchased in cannorma state that mind can be purentised in their neighborhoods at reasonable prices and on easy terms. They also remark that there are large areas of land belonging to the Govern-ment still open for settlement.

### COLONIES.

The progress that the Southern California colinies are making is extraordinary; they are filling up fast and those who baild and enter npon perminent occupation seem so well pleased with their selection that they induce their old neighbors and friends in the Eastern States to follow them,—Cov. S. F. Merchant.

### HEREFORD CATTLE

We commend the following communication to the careful consideration of our California stock breeders. The writer is evidently thoroughly conversant with his subject, and his suggestions are worthy of attention:

SAN FRANCISCO, OAL., Dec. 2d, 1883. EDITOR RESOURCES OF CALIFORNIA: I take pheasure in informing you of my successful trip to New Zealand and return. brought back twenty selected Hereford hulls, ten to twenty-six months old; eighteen selected Hereford cows, twenty-four to thirty months old; ten selected Leicester sheep, two teeth;

ten Lincolns sheep, two teeth.

New Zealand is reached from England in forty days ois Suez canal, and while there I saw the steamship Doric loading, in refrigerators, four thousand carcasses of Hereford beef and ten thousand careasses mutton. The beef was mostly high-grade Hereford, and the ages of those killed was from three to four years. The dressed carcasses weighed from eight handred to twelve hundred pounds cold meat, and the sheep over eighty-five pounds per careass. There can be no doubt h as a grazer and beef producer the Hereford is the breed over all. They are always red with white faces, and guaranteed always to produce n white faced calf, no matter what breed or color the cow. 'Their meat is marbled and they excel in loin, rump, brisket and chine, and you can ent round steaks clear to the book. They are very hardy and splendid travelers, also easy futteners. Thy are low to the ground, small hone and all meat, and shrink less from live weight than any other breed of cattle. In size, they are as large (to dress) as the short horn, and will keep fat where a short hore will starve. There is no doubt but they are aboriginal, and when we notice the stock increase from using the Herefords, we can not help but think so. As prize winners at varions fat stock shows, both in England and America, they have invariably taken the palm: and at the Smithfield show in England, now over one hundred years old, they have regularly taken more than two-thirds of the prizes, and more than all other breeds together. In the Mississippi valley there are to-day a great many of these cattle, and parties are importing them from England at fabulous prices; white in Colorado and Wyoming hundreds and bundreds of high-grade Hereford bulls are being put in with the heef stock of the country.

A five-year old Hereford ball at \$600 is cheap investment, as the grade ball calves he would get in one season, would be readily picked up to turn loose on the range. credit is due to our Pacific Coast people for making direct importations from the Colonies, as the Euglish breeders have five forms in New Zeahand. Mr. Rowlandson, in a prize report, gives an interesting extract from history, showing that in the tenth century a celebrated breed red cattle with white faces prevailed in Wales, of which, that part of the county of Hereford on the north side of the river Wye, formed a portion. He tells as that Howell THE Good fixed the compensation to be paid for iujuries done by one of the princes towards another, at one hundred red cows with white faces, and a bull of the same color. Speed records that Maud de Brehos, in order to appease King John, who was highly incensed against her husband, made a present to the queen of four hundred cows and one bull from Breckmockshire, all red with white faces.

Weberville (Maine) newspaper " Mr. Libby showed a handsome grade Hereford on the street, four years old, that girted eight feet and weighed one thousand seven hundred and ten pounds, and the meat, after hanging two days, weighed one thousand one hundred and seventy-six pounds, and delighted the eyes of epicures;" and Mr. Campbell, in Kansas, who showed a grade Hereford herfer at the fair, had this card on her stall:

1 was born Aug. 19th, '82, and named TEXAS JANE

"My taller was a Horeford thoroughbred, My mother a wild Texas scrub; The views makes me eastly fed, Aud I am able to realle for grub. Bon't stars at him men to my back, Or be serprised at my anow white face, Fir 'tis at it he work of papa. That gives me this Horeford grace." Yours Faithfully, ROLLIN P. SANE.

# GRANGES.

Buyers of oranges are now in the Los Augeles market for purchase of the new crop for shipment.

#### RAISING IN DATESTAG ING AND HOG RAIST SDUTHERN CALIFORNIA

Under the above heading we take the following article from the Rural Californian, published at Los Angeles:

There is no branch of the business of farming that brings in such certain and prompt returns a clairying. Milk, butter and obecse nro cash articles, and unlike the income from grain and fruit which only comes once a year. The dalryman's income comes regularly overy week or month during the year; he requires no credit, but has always each on hand to pay on demand, besides he has another source of income, the sour milk and whey from the dairy makes the very best quality of pork, and in all well managed dairies it is expected that the profit on hogs will pay all the expense for labor, leaving the income from butter and cheese clear profit.

We offer greater mivanisges to dairymen than any other part of this State or the United States. e acre of irrigable hand will produce all the food required for three cows, and give them green feed all the year; thus keeping them in the beat possible mulking condition. Our milking season lasts all Butter is always ready sate at from 20 to 50 cents per pound, and iresh cheese at 12 to 16 cents per pound. Any dairyman can see at a glance that there is a fortune in dairying at these prices We have such a steady demand from Arizona and New Mexico, that, at times, we are unable to supply it, and are obliged to import from San Francisco. This mining market is yet in its infancy, and as the population in the mines is increasing rapidly, our derries will fall far bebindband. For years we have been writing to convince dairymen of the immense advantages that this country offers for their business, but they are difficult to convince. can not understand that we have litous ands of acres of moist valley land just suited for alfalfa, everof moist valley land just salted for airors, ever-green millet, corn and corn fodder, squash, etc. This land is very productive; water for irrigation from flowing wells is abundant, crops are certain, where a man irrigates they never fail; the climate along the coast is cool and pleasant, just right for dairying. And with plenty of green feed, ready sales and high prices, what more can be desired?

Upon the same lands that are so well smited for darrying, hogs can be mised and fattened for the market better and obeaper than anywhere else in the world, and with this additional advantage, that disease is entirely nuknown among our hogs. Un-ul the time comes to fatten them they are fed enlirely on green vegetable food, which costs but little, is very healthful and accounts for the absence During the winter, after the barley is up six inches high, hogs are pastured upon it and grow and flesh up rapidly, until the grain shoots up stems for heading, when the hogs are put on the alfalfa, or if they have it, the affitaria, a wild grass, which is the best food in the world while it lasts. This will keep them until the barley has headed out and the grain is in the dough, then a part of the barley field is fenced off and the hogs are turned into it; after that is fed down, another section is fenced and fed off in the same way, until the whole field is gone over. It does not cost much to plow land and sow barley, the expense is in the harvesting, threshing and sacking, bauling to the depot, and freight to market; but the hog is a labor-saving machine—be harvests, threshes and acks the grain, and if the market is not loo far distent, will pack it to market; but as the loss in weight is considerable, it pays better to hanl blm. The secret of profitable farming in California is

saving the cost of labor, and as we remarked besaving the cost of labor saving machine. After he has finished the barley fields, he gleans the stubble fields, and when the corn begins to mature, he will harvest that, too, and if the stalks are not too ripe he will eat them also, to get the sugar they con-taio. When hogs are worth seven and eight ceuts per pound on foot, as they are now, it pays better to feed corn and harloy on the ground, than to barvest it. There is absolutely no waste in the corn, and what barley falis to the ground is not corn, and what berief this io the ground 18 not lost, but is seed for the volunteer crop of the next year. It is not uncommon for four or five succes-sive crops to be raised from one sowing and plow-ing, and after the grain has been "hogged down," is volunteer crop is always a good one.

A dairy is a grest advantage on a hog farm, as

the sour milk is just what is wanted to sustain the young plgs from the time they are weaned until they are four months old. When they are young their stomachs bave not sufficient capacity to enable them to thrive and grow on coarse food. After they are four months old, they will live on alfalfa, clover or any similar grasses and are particularly fond of sifalfa hay, and will fatten upon it; cut at the proper time, it contains a great deal of sugar, which accounts for it.

Dairying and log raising fit well together and will pay better, for the amount expended for labor, than any other kind of farming. The results are certain. With water, land is sure to produce feed; corn and barley are unfailing crops—affulfa and evergreen millet growall the time; squash hand produce 60 tons per sere, roots in the same propertion, but with the millet and alfalfa, are not much

If a man wants a certain husiness that will pay well from the start, and keep on paying all the

time, we would advise him to get some moist land lu our valleys, and try duirying and hog raising, and with tolerable management he will be sure to

#### TRINITY COUNTY PROSPECTS.

That everything in a mining scetion depends largely upon the ancess altending the miner's efforts is a self-evident proposition. When we have a good season, with plenty of anow and rain, affording a liberal water supply far into the following summer, the miners wash large quantities of gravel, strip many thousand teet of bed-rock, and the yield of gold-dust is abundant. Laboring men get in many months work, wages are good and money is plenty. Business booms; the merchant, the banker, the tinker and the tailor, everybody in fact, prospers, and all are in the best of good humor, and look hopefully to the future. After a dry season, honever, when water has been very limited, and the work done and gold-dust produced being only in proportion, all this is reversed and we are too apt to take a gloomy view of the situa-tion. Such is the condition of affairs at present. Our county has just had one of the poorest mining seasons ever experienced, and while the mines have, without exception, paid well for the amount of work actually done, this is something lost sight of because general results fall below the average of former years.

This fact is one to be regretted, but it has no more to do with the possibilities of the future than has a crop failure from drouth, in a farming section, to do with the productiveness of the soil in another year when rain shall be pleuty. The gravel mines of Trinity county are as rich to-day as they have been at any former period, and there are thousands of acres of anriferous gravel deposits within our boundaries remaining untouched, but only awaiting eapltal and enterprise to develop their hidden wealth, and make them famous among the hydraulic mines of the State. Wherever and whenever, in the past, a gravel deposit bas been opened and intelligently worked in Trinity county, a success has been the result. Sohemes have been de-vised and capital has been inveigled into gravel mlning enterprises here which did not pay the fabulous dividends promised by their projectors; but these failures have resulted either from misrepresentation in the beginning or the total lack of practical management at a latter period. Some of these which have been almost abandoned by the bolders-or suffered to he idle by a lack of confidence in their possibilities-could easily be made paying properties if properly managed.

Quartz prospects in l'rinity county are, at the present time, more promising than in any other section of the Pacific Slope. Deadwood district is producing its thousands every week, and new mines of rich rock are being discovered with a frequency that is most encouraging. Bullychoop district is coming to the front with several well-developed and good paying mines proven, and others which give promise of good results in the near future. At East lork but little work has yet been done, yet that httle shows that the ledges in that section are rich enough to pay well from the very beginning, Just at the present, but little crushing is done, owing to the lack of water for running arastras; but rock is being taken out and pited on the dump ready for crushing as soon as water comes. New mines are bring discovered and new arastras erected all the time, from which we may expect to hear good re parts another sesson,

"It is a long lane which has no turn," and while we have been afflicted with three or four successive poor mining seasons, we yet have hope that the future lies better things in store for our ininers and the people of this section in general. One real, good, old-fastioned wet winter will make every-thing boom in Trinity as of old, and show to those who think our mines are played out, and the county going down, that we are based on as solid a foundalion now as ever in the past. In this connection, we would call the attention of skeptics to the fact that, notivithstanding a dry season and prevailing dull times, the ascessment roll shows a larger valuation of property this year than the last .- Trinity

### THE PINE PORESTS OF CALIFORNIA.

The mountains of California are heavily clothed with pines; two of the most valuable being the sugar pine and the heavy wooded pine. A writer on the vasiness of timber in the State says: There is probably more timber, and of a quality not aur-passed in the State, in Fresno county than in any other in California. The timber belt extends along the Sterras a distance of fully 200 miles, and varies from ten to forty miles in whith. When the tim-ber in the more accessible sections is exhausted, this valuable belt will be uttacked, and its almost inexhaustible supply will give employment to thouands of persons, and will require millions of thouands of persons, and wait require millions at capital to handle it. The first incentive will be the California Contral Railway. This will tap the same belt now being worked by the Madera Flume and Trading Company, but in time other routs will be built to tap the pineries on the south side of the Ban Joaquin and of King's rivers. There are millions of dullars in the pincy forests of Fresno county.-Healdsburg Enterprise.

The pea-nut harvest, says the Santa Barbara NICOLL, The Tailor.

Press, is now caming on and the California crop 18 nowhere adequate to the demand for the formula nowhere adequate to the demand for this favorile nnt. All who has c raised pea nuts this year, lind a good price ready for them.

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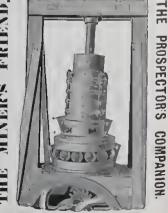
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of order.

Price, complete with Partic Saw Mf g Co., S Extra Quality Blade, set and filed, rendy to work, orde, 5 for, with their second quality blade, set and filed, rendy to work, set, 5 for, with imported blade, set and filed, rendy to work, \$1 25; with imported blade, set and filed, rendy to work, \$1 25; with imported blade, set and filed, rendy to work, \$1 26; with imported blade, set and filed, rendy to work, \$1 26; with imported blade, set and filed, rendy to work, \$1 26; with imported blade, set and filed, rendy to work, \$1 26; with imported blade, set and filed, rendy to work, \$1 26; with imported blade, set and filed, rendy to work, \$1 26; with imported blade, set and filed, rendy to work, \$1 26; with imported blade, set and filed, rendy to work, \$1 26; with imported blade, set and filed, rendy to work, \$1 26; with imported blade, set and filed, rendy to work, \$1 26; with imported blade, set and filed, rendy to work, \$1 26; with imported blade, \$1 26; with i

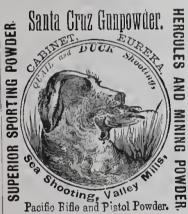
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THE SANTA CRUZ MOUNTAINS.

A correspondent of the Workly Bulletin furmakes that paper with the following concerning munutain lands in this county:

During the past three years a large area of wild lands in the counties of Santa Cruz and Santa Chra, principally of a hilly character, have been brought more or less under cultivation For years this section was neglected, being considered almost inaccessible and less, to grow that which goes so far toward worthless for agricultural pursuits. The South Paritie Const Railroad, however, has induced travel in this direction, and given opportunities for the intelligent examination of the soil, and the conversing of its possible productiveness. That the locality is well adapted for fruit and grape growing, seems to be generally conceded, and many young orchards and not a few vine. yirds are to be seen springing up where formerly brush, serub onk, small redwood and chapparal luxuriated in silent solitude good deal of public land that was considered of no account, has been taken up by pre-rmption and homestead claims until there is little land that can be had for the simple matter of locating. The mere fact of a railroad bordering these properties, gave them some sort of a market value, which has been wonderfully increased by subsequent successful cultivation.

As showing the estimate placed by operators on this class of property, we append a few particulars of sales recently made in the neighborhood of Alma, distant about three miles south of Los Gistos, as follows:

P. G. Simpson to J. Bishop, 80 nores, improved, \$3,750.

L. A. Cole sold 55 acres, partially improved, for \$2,400.

J. G. Floyd sald a truct of band of 39 arres for \$3,500. This piece is fairly covered with young fruit trees, but there are no buildings

J. Seppi sold a trart of 80 acres to A. Riel for \$2,500. Vuennt land

A. Breckwoldt has hought a ten acre piece, unimproved, for \$500.

#### GRAFTING ON ALMOND TREES.

Mr. A. G. Hollister has made what may be called a very remarkable success in grafting on almond trees. He has now over a thousand almoud trees grafted to praches, nectvrines, prunes, plums and apricots. He finds tha most stone feuits do excellently well on almond stocks, but a few exceptions are found, Cherries do not unite perfectly with the wood, and aprients do not fully develop. and pranes are especially adapted to this pro-He has a thousand prine grafts now in flourishing condition; some were grafted three seasons ugo, others last year. From the lutter, were shown some very fine specimens of the Freuch petite prune. They are rich, menty ami remarkably sweet. On one alayond stock Mr. Hollister succeeded in raising, this year, large, excellently-flavored egg plums, peaches, necturines, apricots and two varieties of pranes. The samples show, conclusively, what may be done with the discorded almoud tree. The grafting is done high up on the branches, where the new scion has the full brnefit of the woody strength, sap, und many year's grawth of the parent tree. The second year after grafting to primes, as Mr. Hollister has found, a very fair crop may be gathered. He is preparing to thoroughly test the grafting of Cue's "Golden Drup" plant this season, and has fuith in yet making the optiont a suc cess. All his ulmound trees will thus he utilized. The same can be said of Colonel Hollister's place, where thousands of almond trees are now shorn of their tops and ready for transforming into more profitable fruits .-Sunta Burbura Press.

### THE HOTALING IRON MINE.

From all accounts, the from furning at Hotaling is having a splendal run this year. They are making iron with much less fuel in proportion than formerly. They run off every eight hours, or three times a day, and average about ten tons of pig to the run. Their developments under ground abow an enconrnging increase in the ore deposit. New conl hilms are being built, and large quantities of bricks unde for the erection of others. The pny roll of the company is large, and everything about the place shows life, pash, progress and prosperity. All from out that way encode the present superintendent, Mr. Seetey, is the right man in the right place.—
Placev Herald. SMALL THINGS ON A FARM

It is the general custom of large formers in California to pay too little attention to the growth of vegetables for home consumption, Thousands of farms in this valley do not produce their own vegetables, but depend upon the Chivese gardeners to supply them. This is not a very flattering recommendation for California furmers—not being uble, or too shiftmaking up a good living. In the Eastern States, the first thing that receives attention from the firmer is a well assorted garden of vegetables. The result is a thriftness rarely met with in one State, for a living is assured from the garden, and the production of the field is sold to better advantage than where it mu-t be rushed into market as soon as it is gathered, to meet indebtedness incurred for necessaries which should have been produced upon the him. Every farmer in the San Jonquin Valley should make it a paint to grow sufficient vegetables to supply his own table This will save it considerable sum that would otherwise go into the hands of Chinomen, and in case of failure of field crops, the gorden will be found a very valuable assistant in keeping down expenses that generally run up in a sry embarrossing manner about that time, Where a natural water supply is not to be obturned a well can be sauk and a cheap windmill erected. A few days' labor cannot be spent more advantageously on may form them seeding a small truct to potators, heets, onious, and the various "truck" that is usually grown for the use of man. Nowhere should this plan be more generally adopted than in this county. The artesing belt affords the most encouragement in this matter, but there is no section of the county where the further numbed improve upon the old style of merely growing grain for money, and pending the money for those things which he should produce in abundance at home -Tulare

Arpad Haraszthy, in the course of some remarks at the recout State Viticultural Convention, said; "Fermentation once began should be continued without any interruption. Ferwegting in this country is not more thorough in lurge than in small casks Less time is required for the fernantation of rol than of white wines. When fermentation is slow or sluggish it is often mude active by stirring the sediment at the bottom of the casks. White wines unale from white grapes should be fer-mented on the skins. After the new wine has been drawn off from the fermenting cask it should be allowed to settle in a quiet place (moderately cool, but of uniform temperature) until the middle of March, when it should be drawn off into clean casks that have never been sulphured, other for ted or white wines, and thus atlawed to remain with the bung slightly looseved until the 20th of June, when it should be drawn juto other pankages clear, and if it is a white wine that is drawn, the package into which it is put should be sniphared with a small sulphur strip. The wine cell-ars should be clean, free from any gas or foul odors, with good ventilation, which should be sparingly used, and should be kept dark, but not so dark that the light cannot when necessary be salmitted. While I advise the mainting ot new wines in smaller packages, I counsel the keeping of ahl wines, whether red or white, in large makages where the evaporation is les and sudden changes of temperature less likely

### COPPER.

J. W. Cook, mu ohl Chicoite, now farming in the vicinity of Orland, has struck a rich thing in connection with S. L. Jordan, a miner of much experience. They have discovered a rich lode of copper about two wiles worthwest nf Smith's Mill, on Stony Creek. The ledge is about twenty feet thick, with the necessary wall rock to indicate a lode. It has long been known that copper ore has been found on String creek. About twenty years also, Mr. Sorihmer, an old settler there, discovered some rich preces of ore, but no ledge could be found. The location of the present discovery must be about len miles from where the first cultications were found .- Red Bluff Senfinel.

THE RESOURCES OF CALIFORNIA is the best paper to send to your friends abroad.

### OUR MILLING INDUSTRY.

The astonishing growth of the milling interest in California is gratifying to every true lover of this sun set land. At the present rate of progress it will not be many years until our surplus wheat will all he shipped abroad in the shape of flour, thus concentrating the bulk and value of our breadstuff exports and redueing the freights correspondingly. The chief increase in the milling business is at Stockton, Vallejo and Whentport, At Stockton there has been two large mills built within a year. These in addition to those already in operation there, puts that city in the lead of all other places in the amount of wheat converted into flour. Starr Mills at South Vallejo has for many years taken the lead of all other mills in the State for quantity and quality of flour, produced; and their capacity has recently been largely increased. Notwithstanding this, their business has out-grown their power of enlargement at that point. To meet the growing demand the company has heen incorporated, taking the name of Starr & Co., with a capital stock of two and one-half million dollars. Many of our wealthiest men have taken stock. The company has purchased land and water front on the Contra Costa side of the hay, near Port Costa, and call the new place Wheatport. Here the largest mill in the State is in course of construction, which will be completed in time for the crop of 1881. They have also constructed large warehouses for the storage of grain. These hulldings, it is needless to say, are approached by rail as well as hy clippers. These and kindred enterprises are a sure indication of profitableness of the milling husiness.

Next in in importance in this line may be mentioned the Pioneer and Sacramento Mills at Sacramento, and the Buckeye Mills at Marysville. These consume enormous quantities of wheat during the year and their flour market has over-leaped the houndaries of the State or Pacific Coast. The North Star Mills, Tehsma county, also deserves special mention We are not advised as to its capacity, but it is very large. It is owned by M. C. Ellis & Sons who formerly resided on the Ellis farm in this county. We must not omit the mention of our own Yuha City Mill which has been enlarged from time to time until it has become one of the leading institutious of the kind in Northern California. All over the State there is a great impetus in the milling husiness, and mills are going up of more or less capacity. Many of the smaller mills have combined, and ship their product to their joint agent in Liverpool and elsewhere to the johber and consumer .- Sutter County Farmer.

# THE LUMBER OF THE PACIFIC.

The lumber of the Pacific Coast will duplicate a hundred ames the weath of precious metals its mines have produced. It is difficult hy simple description to give an idea of the extent and character of these forests. On the Columbia and Snake rivers we have seen a good deal of yellow pine, but the timber of Oregon and Washington is chiefly of fir, hemlock, cedar and spruce. The rivers of Washington are wooded with a heavier growth than those further south. A sample acre on the headwaters of the Chehalis, which empties into Gray's harhor, sixty-five miles north of the Columbia, was found to yield eighty four fir trees, aversging 12,000 feet each, or 1,008,-000 feet board messare of clear, merchantable lumber. This specimen acro was messured by a New York Inmherman who was "cruising the country for a saw-mill site. He told me that the heaviest timber was at the head of North river, which flows into Shoalwater hay, between the mouth of the Culumbia and Gray's harbor. It is no unusual thing, he tells me, in this country to take 8,000,000 feet, hourd measure, from a quarter-section of land. The trees are over 200 feet high, and many of them 200 feet high, and many of them seven feet in diameter .- Cor. Chicago Inter Ocean.

### CROP YIELD.

The Greenville Bulletin says: " Four years ago, Mr. Harry Williams set out a few grape vines at his place near town. This year the vines have produced a heavy crop of plump, handsome grapes; the fruit has ripened perfectly and is of very fine flavor. The grapes are Catawhas. Finding that they have done so well, Mr. Williams will set out a large number of vines as soon as possible."

#### VALUABLE LAND.

The following is taken from the Russian River Flag, published at Healdsburg, Sonoma county:

W. N. Gladden purchased in 1872, some fiftyfive acres of land one mile south of town and removed to it in April of that year. The piece consisted of thirty five acres of good land, ten acres light sandy soil, and ten acres of gravel. At the time of purchase there was on the place a two and a-half acre ornhard, five years old, of various fruits. In 1874, Mr. Gladden planted five hundred peach trees on a light gravelly soil, also two acres of grapes, as an experi-ment on that kind of land. The result was such as to warrant the planting of all that kind of land in these fruits. This land in hay or grain would not produce \$5 per acre, but in peaches, it has yielded \$250, and in grapes, \$125 per acre. Mr. Glubden has now his entire place, except four acres, panted in orchards and vineyards. Fifteen acres of orchards and two acres of vineyards are in full bearing. List year the gross receipts from the farm were nearly \$1,000. For his his grapes he realizes the highest market price, they being the earliest grown in the vicinity, and the quality good. He has never had to use sulphur to prevent mildew, and the vines produce hountiful erops and do not make so much wood as on rich, heavy land. Ho says that along Russiau River, hundreds of acres of such land, now considered worthless, can be made profitable by planting in vines. The raisin grape (Muscat of Alexandria), growu on such laud makes as fine a raisin as can be found in the market. This year, the fruit being light, his place did not yield as much cash as last year, but he has a uursery of fine young trees that will do much toward making up the deficiency. With orchards and vineyards in full bearing, at present prices the gross proceeds of his place would be \$12,000 to \$15,000 per year. His leading fruits are, peaches, plums and prunes, yet he has all other kinds raised in the country.

#### ORCHARD AND VINEYARD.

The Chico Record, in speaking of General Bidwell's orchard and vineyard, says:

It is estimated to cover 1,300 acres of ground, but it is so located along the creek, in tracts of all sizes and shapes, as not to appear half so much. If it was all in one hody it would truly be a magnificent sight. As it is, the work of cultivation, and especially gathering, is much more difficult, but the pleasure of viewing is enhanced by the great variety of scenery which is associated. With orchards and vineyards of all trees to the right and to the left, the road winds hither and thither, while the tree-emhowered creek flows in the mulst, and clumps of timber come in here and there, making most remarkable diversity and beauty. We give the subjoined figures, kindly furnished by Mr. Gray, the superintendent. Less than half the trees are now bearing; peaches, 13'000; plums, 5,468; apples, 1,955; apricots, 3,970; pears, 1,735; cherries, 1,675; almonds, 2,800; quince. 60; fig. 50; total, 29,840. In 1880, there were 50,000 grape vines, and this year 12,000 were set out, making in all 62,000. There are also eight acres of blackberries.

### ADVANTAGES OF NAPA VALLEY.

It only needs a trip through a valley like this to demonstrate the truth of the proposition, and also to prove conclusively the wealth that is in store in the near future for the fortunate holders of good vine and fruit land in Napa valley. To any one who has the means to buy land, and the taste for country life, thereure few parts of this State which offer so many advautuges and attractions as Napa Valley. Here are a few of them: Irrigation is not needed, the average rainfall being 26 inches and the unblowing over from the sea, giving fruit all the moisture that it requires; the soil is rich, easily worked and not inclined to wash; there is abandaut wood in the hills, which are neur at hand and form so striking a feature of the landscape; water may be secured at almost any place by boring down a few feet; the valley is brought within convenient reach of the city by a good railroad; it is settled by a class of people who make good neighbors-who helieve in schools and charches, who have the means to improve their places and who take a prule in maintaining the reputation of the valley as one of the gurden spats of the State,-Cor. S. F. Ohronicle.

Dr. Shaw returned from his ranch at Los Alamos yesterday, bringing with him a sample of ensilage made from barley, oats, wheat, clover, alfilleria and "fox-tail" grass. It was put into the silo on the second of Jane, and taken out on October 9th in a perfect state. It was fed to the cattle and they are it with avidity. Though not so perfect this year as the Doctor hoped, he expects uext year to bring it out green instead of brown. This is the first attempt in Southern California and is a gratifying success. The sile is an important adjunct to the Doctor's dairy ranch. The innevation into the methods of preserving fodder has caused much excitement in Eastern and foreign agricultural circles, and it is gratifying to know that Santa Barbara can claim the lend in its successful inauguration in this section. -Santa Babara Independent.

# W. M. BRANDON & CO.

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130 AORES, ONE AND ONE HALF, and half and depot, miles from town and railroad depot, included and beginning first-class house and good barn; 500 choice fruit trees and family vineyard; plenly of timber; a fine from tstream runs through the place; a pair of mules, 2 cows; a lot of poultry, and all necessary farming implements are included in the price. W. M. BRANDON & CO., 344 Kearny atreet.

132 2500 miles from depot and posiotifice and half a mile from achool; 34 acres in perfectly level, halance gently rolling; 1 rood soil, particularly adapted for fruit; 2 acres hops; vineyard and orchard; and fine climate; 400 cords of wool cut and ready for hauling; plenty of standing timber, which will more than pay for the place; common house five couns; burn and outhouses; 2 cows; 4 good work horses, wills their harmes; 1 four-horse wagon; 1 two-horse wagon; 1 spring wagon; plow; cuttivator; harrow, W. M. BRANDON & CO., 344 Kearny atreet.

plow; cuttivalor; harrow. W. M. BRANDON & CO., 344 Kearny atrect.

20 AGRES AND UPWARDS—1699 AGRES FINEST fruit, grape or farming lamis in the State; all rich, level land, and plowed ready for planting; we sell on small yearly installments; cheap land and convenient for transportation; best opportunity ever offered for a poor man to obtain a home; will suit all classes; plenty of rain and lovely clinate. W. M. BRANDON & CO., 344 Kearny street.

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CO., 34f Kearny street.

1,000 and form Napa City, all fenced; new house and barn, with a plentiful supely of water. This ranch is now may for darrying, but a large proportion of the land is subject to cultivation, and being absolutely free from frost is excellent for orchard or vineyard. W. M. BRANDON & CO., 34f Kearny street.

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1010 one-balf mile from school and only
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good land mostly level; balance gently rolling; all cultivated, except 40 acres which is pashire; good orchard
and 30 acres in vineyard; busice, bara and outbuilbings;
plenty of water; Thorsea; I wagon; all necessay farming lools; I otom of liny and a quantity of poulity gowith the place. W. M. BRANDON & CO., 344 Kearny
street.

street. \$20 PER ACRE; 4,000 ACRES; THE FINEST larc county; fouced; bas six houses and barns on it; all choice lands, with unquestioned waiter rights, and for fertility can not be antpassed. W. M. BRANDON & O., 314 Rearny street.

CU., 314 Kearny street.

70 ACRES, ALL HIGHLY CULTY.
maile of Visilla, 30 acres in alfalfa. flue vincyard and orchard; all well fetucet; water rights desied with the
place; good house and harn; A No. 1 soll; there is good
thanker out this ranch. W. M. bhandon & Cu., 344
Kearny street.

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Preminms since organization, \$4,155 239 10 Losses, since organization. - - \$1,859,286 64 Assets, Jan. 1, 1883, - - . \$717,156 63 Surplus for Policy Holders, - - 710,860 63 Reinsurance Reserve, - - 172,898 50 Net Surplus Over Everything, - 237,962 13

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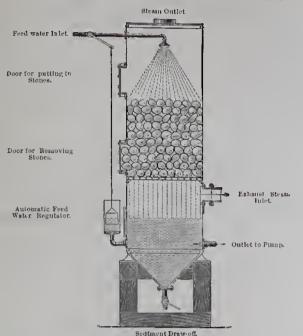
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WITHOUT THE AID OF CHEMICALS.



Hents the water to holding point. Frees it from all chemical impurities. Saves from 30 to 50 per cent of water by condensation. Prevents the formation of scale, and saves fully 25 per cent. In fuel.

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LLEWELLYN STEAM CONDENSER MANUFACTURING COMPANY,

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Descriptive Catalogue Sent on Application.

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DEALERS IN ALL KINDS OF

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> W. L. CHALMERS, Special Agent and Adjuster.

### SIGNS OF THE TIMES.

Within the past year there have been many indications of a rapid and permanent growth in the northern part of California. Never hefore were there so many permanent improvements going forward. These all indicate the development our part of the State is making.

Foremost among these is the California and Oregon Rulrond being pushed north. This has already increased the price of had; has consed the settlement of many families; and is opening up a new section of country. When completed, it will do for this part of the State want the Southern Pacific has done for the lower part of California.

The grand canal in Colusa county is another valuable improvement to real estate. No one, at present, can estimate the good it will do. It is safe to say, however, that every aere of land that can be irrigated by the waters of this canal will be worth \$100 within the next five years. A survey is being made up Feather river with a view to extending the California Northern Railroad worth, through the counties of Plumus, Lassen and Modoc, so as to strike the Northern Pacific in eastern Oregon. This will open a splendid section of country but little known at present. We point to the fruit enuneries us one of the things that indicate growth and development. The one built in Oroville will put up, this senson, about 40,000 caus of fruit, and has given employment to about fifteen persons. Another year we may estimate that not less than 100,000 cans will be put up. This winter 25,000 fruit Irees will be put out within a ridius of twelve miles from this town. A large cauuery will be in operation at Vina next year, and another at Yuba City. These indicate other improvements, also, of a durable uature. The Butte creek levee, built by Governor Stanford, is one of the marked improvements of the last year. The opening of the Johnson wmery and distillery, at Marysville, and the winery at Moore's Station, in this county, will largely help the owners of vineyards and increase the value of land suitable for grapes. The increased price of land is a marked sign of progress. Land all through the Sicramento valley has perceptibly odvauced during the past year. In many localities it has gone ahead from twenty-five to fifty per ceut, of its former price. In nothing have we gone behind, while in wool, wine, lnuber and gralu the whole region has been ndvancing .- Oroville Register.

### OIL DEVELOPMENTS.

A reporter of the Times lately met Mr. Burdette Chandler, the well-known oil man of this county, and obtained from him some information concerning the Pueute and Petrolia oil districts, in both of which he is interested. Mr. Chandler had just returned from his wells, and states that everything is progressing satisfactorily. The deepest well at Puente is now down 270 feet, and Mr. Chaudler will put it down 1,000 feet, if necessary. At Petrolia the prospect is very encouraging. Besides Mr. Chandler's well, Bower & Co. are putting down one at the rate of thirty feet a day, a Santa Aua company is at work, with good prospect, on the Shanklin land The oil from these districts sells readily at from \$4.50 to \$10 per barrel, and Mr. Chandler says he could readly find a market for 1000 barrels a day if he had it. In this city the Electric Light Works, the country and the City Foundry, are using this oil. The San Gabriel Wine Company and the Colton Lime Works also use it. The demand for oil is very great and constantly increasing, and there is at present no more inviting field for capitalists than to develop the immense oil districts in the neighborhood of this city .-Los Anneles Times.

# BROOM CHRN.

We find the following in a late issue of the Chico Enterprise: "G. M. Johnson, a farmer northeast of Nord, has told as of an experiment he tried this year, which has proved successful, and is, we think, a matter of special interest to the farming community. Mr. Johnson sowed broom corn seed on his adobe land after it had been summer fallowed. He did not barrow it in, but a min came and covered it. It came up finely and he has used the field for pasture all the summer The plant has kept green, so as to be very fine for his cows. This full he has turned hogs in, and they have devoured it, roots and all, so as to clear the field completely. He is much pleased with the experiment."

### CALIFORNIA AS IT IS.

California has contributed to the wealth o the world, gold far exceeding a thousand millions of dollars, while its hardy pinneers have developed the mineral riches of it sister State so that they have jointly curiched the earth with more than double the value here mentioned. What would have been done without this vastness of wealth poured into the coffers of the earth it is hard to say. Who knows what it has done towards giving the United States its pro-ul position among natious? We still produce, in California, from sixteen to eighteen million dollars worth of the precious metals aunually. California, and her children, bring the figures up to eighty millions of dol-

Our production of wheat has reached fiftyfive millions of bushels, but we have wheat lands of inestimable fertility-thirty millions of acres-which, with high cultivition, will yield as much as the finest farm lands of England or the East. Twenty millious of acres of these lands are of the best in the world. We have of wine lands, in California, fifteen millions of acres, on the coast, thirty millions. Every hillside can be converted into a fruit orchard. A large section of the San Joaquin valley will produce the finest cotton, while sngar cane grows in the south, and there are two millions of acres suited to the sugar beet. Southern California is the hand of the vine, the olive and the fig, and there is no semi-tropical production that can not be raised there in profusion.

We are in the infancy of silk culture, but good judges in the matter set us down along-aide of Londardy. The lumber resources of the coast are practically inexhaustible, but they have been frequently set down at four thousand millions of feet yearly.

Tuere are a thousand ways in which capital onn be invested and money made, that only need taking advantage of to set the Pacific Coast, in prosperity, ahend of the world—S. F. Journal of Commerce.

#### A REMARKABLE MINE.

From the following, which we take from the Sonoru Democrat, it would seem that some remarkable results are being achieved at the Golden Cliff mine, at Angel's Camp, Calaveras county:

The mine is located on what is generally known all through the foot-hill counties as the mother veiu. But the lead itself is not worked. It is from a belt of talcose slate lying directly to the east, and running parallel with the lode, that the gold comes. At the Gold Cliff, this helt is over one hundred feet wide. Everything within this distance is taken out and rnu through the mill. There are no shafts, drifts or stopes. The rock is simply quarried out from the surface along the hillside. The gold is all sulphuret gold, and very flue. All along the surface and for some depth below the sulphurets are oxydized and deromposed, which renders the gold easily saved without the aid of any chlorinizing process. One hundred tons of ore, if the stuff can be called ore, is put through a twenty-stump mill every twenty-four hours. Although the power used is steam, the total cost of mining and milling is only one dollar per ton. Waterpower is now being introduced, by which means Mr. Goldstone, the Superintendent, expects to reduce the expense of extracting and crushing to sixty cents per ton. Mr. Goldstone informed a representative of the Union Democrut that the rock yields about four dollars per ton, and that the mine pays regular dividends. There are other mines of the same character, equally as large and fully as rich, so it is said, in the same vicinity, but no mills have been put up on them as yet, though one or two are in contemplation.

### EVERBREEN MILLET.

Five hamilred acres of laud have been purchased in the Lompoe valley, by l K. Fisher and Frank Smith. This land they intend to devote entirely to the raising of millet, a grass which is rapidly growing in favor with stock and dairy men. It makes a most excellent foilder, and horses and cattle prefer it to alfalfa, or almost any other feed. It is planted like corn, and those who have tried it say it flourishes abundantly in almost any arable soil, and spreads very rapully from the root, needing no irrigation, and furnishing n steady, rank growth all the year round .-Lompoc Herald.

#### THE MINING INDUSTRY IN CALIFORNIA.

The following interesting article is from a late unmber of the San Francisco Stock Exchange

Owing to the depreciation in silver, our gold mines are in growing demand and are eagerly sought after. Thore is considerable inquiry tront the Eastern and Lurquean markets, particularly for large veius of low grade orcs—whether devel-oped or undeveloped Modern improvements and appliances have materially reduced the expenses of appriances have materially reduced the exponses of extracting and reducing gold ores. With a multi-plicity of stamps, water power, giant powder, power drills, rock breakers, self-feeding concentrators and the use of gravity in handling ores, lowgrade ores cun now be profitably reduced. Large veins or hodies are profitable investments, for, as a rule, the gold is more evenly distributed in the

The following are some of the mines that are being successfully worked under these conditions and noted as regular dividend payers: The Sumner mine, (Kern county)—80 stamps, water power, mined and milled, \$1 25 per ton; Zeile mine, (Ama dor county) - Deep workings and mine timbered, water power, \$1 75 per tou; Amador Consolidated, (Amador county)—from uear surface several (Amador county)—from uear surface several thousand tons have been mined and mitted, \$1.25 per ton; Keystone mine, ¡Amador county)—from a depth of 400 feet, \$1.75 per ton; Homestake, (a group of mines) of Dakota Territory, hoisting by sleam from a depth of 400 feet; mine timbered by square sets, each set replacing a cube of 21 tons of ore—the mill run by water power. In this mine the ore is being mined and milled, at \$1 63 pet ton. This group of mines is running 550 stamps of 850 pounds each, which crush three tons to the slamp per 24 hours, or 1,650 tons per day. From these mines the average yield of 1,500,000 tons averaged \$5.75, and paid \$4,000,000 in dividends.

In California, particularly on the mother lode, the vein in places expands from 50 to 100 feet in width, or at least it is metal b aring for that width, inclusive of the slates, giving an average value per ton of from \$4 to \$6, and in many places can be worked by open quarry to a considerable dipth, and by adit level to a much greater depth. Under these conditions it should not cost over SI per Ion to mine and mill with proper appliances. But with this class of mines the poor man has no business, as five or ten stamps would affard but small return, if any. From 100 to 150 stamps are required, crushing from 300 to 1.500 tons per day. The great saving is in labor, as a large mill can be run at but little more expense than a small one, the difference in wear, tear and power, cutting but little figure on the principal. The wholesale merchant or mining capitalist can get rich when the retail merchant or

capitalst can get fren when the total materials one-borse miner would fail.

An extensive mine of the class referred to changed hands last week; William Werry of Placer county being the vendor, and George W. Grayson, E-q., the Mulas of California, the purchaser. Grayson seldom makes mislakes; he looks before he leaps, and always gives a contemplated purchase a person-al and thorough examination before buying. In at and Thorough examination to the business of legitimate mining he has amassed a large forting. The mine referred to is known as the Mammoth mine, or Big Vein, consisting of five locations, each 1,500x600 feet. The vein, where developed by shalt and crosscut, shows a width be-tween walls of hfty-two feet, carrying ore evenly distributed through the mass, and averaging from repeated mill tests, \$550 a lon of gold values. It is the purchaser's intention to thoroughly develope the mine by adil level and crosscuts to a great the mine by ann lever and crossous to a great depth, before erecting a milt. This mine will easily warrant 100 stamps. Water for power in any desired quantity can be obtained from the North Fork of the American river, by building a disch about six miles long. The mine can be worked by an open quarry for a long time and to a great

Il is situated about three and one-half miles southerly from Colfax, on the line of the C. P. R. R. and is surrounded by a forest of timber, developments with undoubtedly be the means of re-viving the now deserted and almost forgotten town formerly known in the flush times of California, in 1850, as Illinoistown, as it is not far from the mine. On its sile there is not a house standing and not an inhabitant to full the tale of its rise and fall? In ils palmy days, previous to the advent of the iron horse, it was populous and prosperous with merchant horse, it was populous and prosperous with increasant bankers. The forwarding house of Susson & Wal-lace had an agency there; Adams & Co's agents bought gold dust and sold exchanges; saloons sold firewater; gamblers plied their vecation, and temp-ted the housest miner with his rough dress, unknippl hair and well filled buckskin purse to squander his band exempts on the turn of a cred.

hair and wen mice duessan purse to aparticular the bard carnings on the turn of a card.

The placer mines adjacent to the town, particularly in B irul canyon and its tributaries, often pald as high as \$100 per day to the hand. One omnee of gotd, or as much as a man could hold between his gotd, or as much as a man could hold between his thumb and flager, was the price of a glass of whisky. The Big Vein purchased by Mr. Grayson, no doubt was the source of the gold found in Burni canyon, as it and its tribulary ravines cut the vein and received its washings. The granger of to-day with his enjoinder was the miner then. It was in he placer inlines that he accumulated the where-

withat to purebase his farming land in the valley. Both Sacramento city and belingerent Marysville courted the miner's trade. The fruit of his labor, (gold) was king. 'The growth and prosperity of these cities were entirely owing to the miner. They now-scrpent like-are trying to sting the hand that gave them food. The granger, with his potatoes and squash, rules the roost, and the miner takes a back seal. He undoubtedly hus both prior and vested rights, which should not be ignored by

### GOVERNOR STANFORD'S VINEYARD.

The following brief account of the largest vine-yard in the world, hierted at Vina, Tehama county,

we take from the Red Bluff Peoples' Cause:

Through the kindness of William H. Smith, Superintendent, we had the pleasure, recently, of viewing the immense vineyard of Gov. Stauford at Vina. The vineyard is probably the largest in the State. There are, at present, 10,000 acres planted in grape vines of different varieties, the greater portion of which are young, and as yet have not heen productive. The old Gerko vineyard, which forms the nucleus, covers a space of saventy-five acres; to this, 1,000 acres of young vines were added in 1882, and 1,500 acres in 1883. The system that has been followed in planting vines is very systematic-the vines being an equal and exact distance apart. They are all very thrifly and form a beautiful sight when viewed from any direction.

The irrigation of this vineyard is, perhaps, the most complete in the world. At regular intervals, through the vineyard, avenues are cut which are forty feel in willh; through these avenues are run irrigating ditches, with a drive-way on each side. The blocks thus formed by the irrigating ditches are about fifty yards wide, but extend at great length, and contain about 100 acres each. In this way the system of irrigation is made complete, and all the land receives an equal proportion of water. Every two of these blocks are planted to a different variety of grapes. The main ditebes run east and west across the field, and where the field is uneven, intersecting ditches are made. In some cases it has been necessary to construct finmes to carry the water over lower lands. A flume, 1,800 feet long, has been built lo carry water over the alfalfa fields. Besides the 10,000 acres planted in vines, the

Governor owns 10,000 acres m re that he has lately acquired by purchase; some of which he is now putting in gram, and some is used in pasture. He is contemplating, however, extending his vineyard, making new additions to it each year.

The amount of work that has been done there within the past two years is immense, and one would hardly think that such a system of irrigating could be completed in so short a time. The used for irrigating purposes is taken out of Deer creek, and we were told that last year all the water in the creek was used.

The grape crop, this year, has all been shipped below, they not attempling to manufacture any wines there.

There is, however, on the place a good distillery, which they will probably put in use in a couple of

years.

The grapes raised are all of the wine-making species. The leading varieties are the Berger, Zinfandel, Chartoneen, Blanvelva and Trousseau.

Mr. Smith, the Superintendeut, is a very prac-fical business man, and understands his business thoroughly. His system of plauting vines is to have them first rooted in a nursery, and then plant them in the vineyard. In this way it does not take the vines long to start.

The improvements on the place, in the way of bonses and barn, are considerable; there being a good dwelling house on the premises, which is occupied by Mr. Smith's family when they are at bome, but Mr. Smith is now enjoying a period of widowhood, his family being in the East. Besides the dwelling there are numerons out-houses.

### NEW ALMADEN MINES.

The quicksilver mines at New Almaden are turntng out large quantities of ore al the present time. Five hundred and fifteen men are kept fully occupied, working ien hours per day. The majority of them are Englishmen and the balance Mexicans and Chilenos and a few Chinese. Miners are paid from \$2.00 to \$2.50, and surface men \$1.50 to \$2.00 per day. Out of these wages, single men have to pay 75 per diem for board, and from \$3.00 to \$6.00 per month for lodging. Married men have bouses to live in, but have to pay rent. There is a Catho-lic and also Methodist church on the till, a handsome school house, and a commodious ball for annusements. Four shafts are worked, the lowest at a depth of 2,000 feet, or 3,000 feet below the level of the sen; unil there are osilmated to be fifty miles of underground drifts, all well timbered and vontilated; and the system of water supply is most complete. This article is conveyed from a neigh horing mountain, by means of two and one-balf inch pipe, at the rate of thirty gallons per minute,
-Santa Olora Journal,

### WHEAT

Mercul farmers are preparing to plant the largest area in wheat ever seeded in that county.



BROAD GAUGE.

# WINTER ARRANGEMENT.

Commencing Sunday, Nov. 11th, 1883,

And until turther notice, Passenger Trains wilt leave from, and arrive at, San Francisco Passenger Deput, |Townsend St., between 3d and 4th streets) as follows:

S.F.	DESTINATION.	S. F.
† 6:50 A. M 8:30 A. M 10:40 A. M. * 3:30 P. M. 4:25 P. M. * 5:10 P. M. 6:30 P. M.		6 245 A. W. * 8 10 A. M. 9 :03 A. M. *10 :02 A. M. 14 :36 P. M. 4 :59 P. M. 5 :55 P. M.
8:80 A. M. 10:40 A. M. * 3:30 P. M. 4:25 P. M	Sunta Cture, San Jose and. Principal Way Stations.	9:93 A. M. *10:92 A. M. 3:35 P. M. 5:55 P. M.
10:10 A. M.   { * 3:30 P. M.	Gilroy, Pajaro, Castrovitle, Salluas and Monterey	*10.02 A. M. 5:55 P. M.
10:40 A M	.Hollister and Tres Pines.	5:55 1. 31.
10:40 A. M * 3:30 P. M.	Watsonville, Autos, Soquel (Camp Capitolal and Santa Ornz. "Broad gange"; no change of care	*30:82 A. M 5:55 P. M.
10:40 A. M.]	Soledail and Way Stations	5:55 P. M.
* Sundays	excepted. † Sundays only	(Sportmen's

STAGE CONNECTIONS are made with the 10:40 A.M. Train, except PI SOADERO Stages via San Mateo and Reilwood, which connect with 8:30 A.M. Train.

SPECIAL ROUND-TRIP TECKETS - At Reduced Rates - to Monterey, Seguel and Santa Cruz; also, to Paraiso and Paso Robles Springs.

PARAISO AND TASO KODIES SPRINGS.

EXCURSION TICKETS - Solid Saturday and Sunday
—good to return on Monlay--to Santa Clata or San
Jore, \$2.50; to Gitroy, \$4.90; to Monterey or Santa
Cruz, \$5.90, and to principal points between San Francisco and San Jose.

TICKET OFFICES—Passenger Depot, Townsend street; Valencia Street Shallon, and No. 613 Market Street, Orand Hotel.

H. R. JUDAH, Asst. Pass. & Tht. Agt, A. C. BASSETT, Superintendent.

no SOUTHERN DIVISIONS. THE For points on Southern Divisions and the East, see C. P. R. R. Time Schedulz.

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188	4.
ARABIC	Thursday, February 71h.
OCEANIC	Saturday, March 8th.
ARABIC	
OCEANIC	Tuesday, May 27th.

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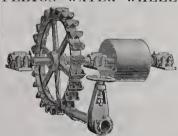
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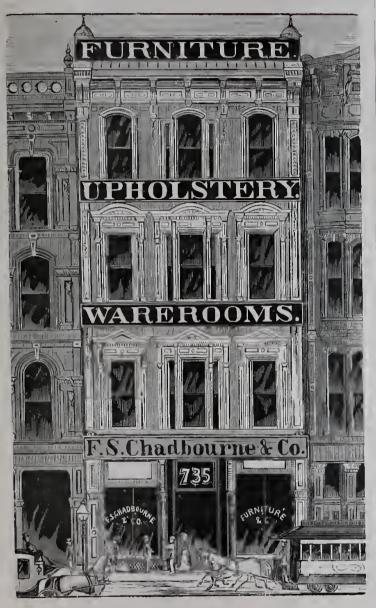
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### NATEING SIME SLANDER.

We think that Mr 1. N. Hong, the nelive and well-We think libil Mr. 1. 3. Tavasi informed intogration agent for the Central Pacific Ratirosi at Chicago, used a good deal of flore powder on some very pioor game recently. The compensation for the hint, however, is found in the practical information given in Mr. Hoag's reply in a very course assault, made through one of the Chicago papers upon California by John A. Tyrrell, it appears that Mr. Tyrrell visited assaulty, and while here, received impressions. this coast recently, and white here, received impressions that disagreed with him, and, on his return to Officego, be worked off his bille in an attack upon the Siste and Mr Tyrrett declared that it was well enough to go west, but not no far west, that the Far West has reached its limit of civilization and settlement, and that west of the 100th meridian no farmer can succeed. that west of the 100th incrimina no larger can succeed. Frull, in callfornia, he found plentiful, but it is worth nothing; anyone can have if for picking up; and fruit farms bentrupt their owners. Finally, he says, the commerce of the whole Peache Goast is dying out. It is were evident that Mr. Tyrrell is either dispeptie or else he its a colossal falsifier. In either case his statements and estimates are too absurd for serious consideration by well-informed section beautiful for serious consideration by well-informed is to the fat are multive to the constraint on the constraint of the prospects, advantages and local attractions of this State. To reach any, who might be led to rely upon Mr. Tyrrell's absurd stories, was what probably Induced Mr. Hoog to answer that gentleman's billions charges. Hoag to answer that gentleman's billions charges. This he does to a recent unumber of the Obleago Inter-Ocean He gives the higherbrious Tyrrell a few incts to occan he gives the highbrious Tyrrill a few incits to diges! that will probably remain unanswers!. Thus he shows that our wool clip is 45,000,000 pounds, that our mechanical products aggregate \$110,000,000 annually; that white the export value of cereals, in 1878, ly; that white the export value of cereals, in 1873, amounted to \$14,920,586, in 1883, they reached \$12,137, 23; that his total for the five years, between the two dates, aggregated \$116,413,783; that we have, in normal tion, no tess than 2,488 miles of railroad, over 433 mitted of white were built whith one year, that our taxable properly has increased, in a single year, over \$100,000, 004, and so on through the hiterasting sinitisties. Millough also content in railroad to the first state of the second content in the seco Hoag also quotes, in reply to Mr. Tyrrell, from state ments by Curson & Wilson, fruil-triers; from L. J. Rose, orchardtst; and from W. H. Jessup, fruil-grower. He points out that our empulation has increased stead-ly; that we have enlarged our emeyards, annually, by bundred of acres; that the income of the fruit and grape growers for three years, has averaged \$10,000,000 a year; that the average become of the 92,000 farm residents of California is fully up to the proper proportion compared with other agricultural districts, according to the census estimates: and that the familiar class to rapidly increasing in numbers and intependence. In 1-90, California produced 00,000,000 bushols of wheat, baying a population of but 800,000, while Illinoi with a population of 3.015,789, 1,000,000 being far residents, produced but 60,500,000. The average who with a population of 3.01.05.1, 1,000,000 originarm resistants, produced but \$1.0,600,000 The average wheat profitee yer farm residual to Ullinois is sixty-one and a half busbets, white in Cultiorist it is 652 bushels. It is unneressary to fottow further; is the refutation, Spillicient has been shown to give point to the value of Cultifornia having "s man on the graund" in the "old West," to nail the lieu that are failed of the "Far West".

# OUR TIMBER LANDS.

Not the least value of Fresno county's resources is its timber lands. The Sierras, along their entire line in this county, are clothed to their summits with a body of as fine timber as ever grew. In no place to Catt-formin have we seen such lordly pines, pttch and sugar, of a fine i in ber as ever grew. In uo place lo Cattfornia have we seen such lordly pines, pitch and sugar,
nor more stately spinee, thao grace the slopes of our
mountains. This twist bett of timbur is worth infillings
of dottars. This limber bett occuples a total length of
shout one bundred infles, with an average doubt of
thirly miles, in this cointy. Of course, much of 11 is
difficult of access, still it is all of great value, and
while at present it seems that this glant forced is lies
haustible, attill it will take but a few years to outlively
denude the mountains unless greater care is exercised.
Thousands of trees are wantonly desiroyed annually,
and every year the young trees are killed or scrously
injured by the forest fires set by careless campers and
throughtless herdsmen. The laws of the cumitry
against the wanton destruction of limber on the public
lands ought to be rigidly enforced, and if it is possible
to find out who originales the numerous forest fires
they, too, ought to be severely jumbshed. This great
to fill out who originales the numerous forest fires
they, too, ought to be severely jumbshed. This great
to the people of the present day and by those who are to
follow us, and it should be currefully guarded by every
good citizen. The destruction or uplary of the young
trees should be avoided, and everything possible done
to protect and maintain the mountain forests.—Franc
Expositor.

### THE MEAT PROBLEM.

An Eastern paper has been considering the cheap An Eastern paper has been considering the cheap heef problem, and according to its conclusions the day of cheap heef has gooe by. The vast regions that have beretofore been devoted to causing are passing gradually into the hands of the agriculturalist, and the cattle-ranges are consequently growing more limited, and their area can not be enlarged in proportion to the rapidly increasing population. Willout free grazing, the expense of graining cattle must be largely increased, so it must follow that as the occupation of the cattleralising regions is extended, the number of cattle roust follow that as the occupation of the calti-ralsing regions is extended, the number of cattle must be decreased. Some of the food problems that tave troubled Europe may yet arise to perplex and houble na with our rapully-increasing popula-tion.—Les Angeles Marrer.

Bubscritie for THE RESOURCES OF CALIFORNIA

# IMMIGRATION TO CALIFORNIA,

No matter of public interest can be mentioned, of more direct importance to every citizen of California than the question of immigration. California an immense State in a ti-rritorial sense as well as in mineral resources, agricultural and mechanical wealth. Yet with all these advantages our populathou does not reach a million souls. And when compare the growth of California with other West-ern States, we are forced to admit that she neonptes a back seat. Olno and Illinois, hoth of which are smuller States than California, have each considerably over two millions population. Missouri, also a smaller State than our own, has more than doubled her population since the close of the war, and now has nearly 2,250,000. Kansas and Colorado have also increased in population since the close of the war more than five times as rapidly as has Califoruia. Tho two last named States are much young thin Callfornia, and a great deal smaller, while Missourt is by no means, an oil Sinte. Then the question naturally arises, why is it that California still lags behind? Her climate is infinitely superior to any of the States named; her interest wealth is a thousand times greater; her finit growing, stock raising and agricultural resources are among the very best. Then why have population and wealth failed to find their way to the Golden State? The answer is an easy one. It is simply because other Western States, realizing the great advantages of rapid growth and development, have taken advan-tage of the opportunities afforded them to scoure a share of the rule of ammigration westward bound, and have spared neither money nor facilities for accompushing it. The competition among thise States for securing a share of the immigration, was even greater than that of business tirms in securiting trade. Catifornia adopted the old fogy plan, and, as a natural consequence, remained for behind in the mee for progress. While her sister States had sent out their agents and drummers, advertising and showing their resources and soliciting patronage, California depended on her well-worked gold mines to bring her share of the custom. But this policy will not answer the demands of the present age of progress and activity. As it is with business men, so is it with States. The firm that fills it above. with goods, be they ever so superior in quality, and then depends on the public to come in and buy, will most certainly be left by the enterprising houses who send out dimminers

But the dawn of a new ena for California in this respect is just at local. We have at last awake neal do nothing policy, and the fruits of the new de-parture are already becoming manifest.—Gult

### IMPURTED PRICES

writer in the  $Alt \alpha$  furnishes that paper wit the following facts and figures: "The Importation of Mediterraneau fruits is something of interest to California because it gauges the extent of the demand which our orchardists expect to eventually meet with home products. So long as millions of dollars are annually sent out of the country in payment for Mediterraneau raisins, figs, propes, nuts, oranges, lemons, and olives, the fmil-growers in California can feel fiee from anxiety lest they overdo the business in those lines. There is no fruit that has been more profitable in California for a series of years push than prunes, and yet the quantity produced here is but a drop in the bucket compared with the quantity imported. For the fis-cal year 1882, the value of the importation of prunes was \$3,083 966.10, or about tail as much as the value of the intal fruit crop of California. There has been an enormous increase in the con-sumption of dried prunes among the poorer class-s in the Eastern States, and it is said the demand shows a great advance every year in which there is a failure of the apple crop as fa the case this season, apparently the production of prunes can never be overdone in Cultfornia. Turkey, Bohesmia, Buogary and Moravia are the countries from which our importations of piunes are principally made. Of raisins the importation last year was worth \$3,260,033.74, or a little more than the value of the princes imported. It is universally admitted that the production of first-close raisins in this country cannot be overdone. Figs were imported last year to the vulne of \$700,000. This is a fruit which gives ery little frould to grow, and which is being the acceptance of \$100,000. can be brought to as great perfection here as in any part of the world. Other truth were imposted last year to the following extent: Currents, \$1,388,895; year to the following extent. Cutting 3 000,000; tales, \$218,564; grapes, green and drud, \$700,000; lemous and oranges, \$5,477,796; mins, \$1,000,000. Here is a total of nearly \$16,000,000 paid for foreign fruits, all of which, except perhaps dates, can improduced equally well to this country."

### LAND

A prominent citizen of this place said that he lu-A prominent citizen of this place and that he be-lieved the best lands in this county, now valural at \$60 to \$75 per nore would command \$150 to \$200 per nore in five years from this dute. These lands, be thinks, will be set out in fruit which will be grown for caming and drying. We think the genth man's judgment is good and hope his predictions may prove true. - Tihama Tuesin.

FROM EUROPE TO CALIFORNIA.

A special correspondent of the Record-Union, writing from New Orlesus, October 9th., thus speaks of the new route from Europe to this State:

The most pleasant and direct conte for the European immigrant, via New Orleans to California, bas been operated successfully since the beginning of this year, and we are positive that ere long this same routs will be preferred by the first-class traveler from Europe to the Pacific coast, and even by the California pleasure-tourist. To make this possible it will only be necessary to add , few firstolsse passenger steamers equaling in outh and comfort the steamers of the English lines between New York and Liverpool. With such a regular connection, and we may hope for it shortly, th new line is sure to be patronized more and more from year to year. The men who have embarked in the gigantic enterprise of establishing the new direct route between San Francisco and New Or-leans, will undoubtedly leave nothing undouc to atimulate the efforts new being made to popularize the new ronte between Europs and New Orleans Even at present, the advantages in making the journev East via New Orleans, cannot be underestimated for all southern and southwestern points, and the connection with St. Lonis and Chicago via the fast Jackson route is so quick and direct that there is, apparently, but little difference in the time made by other lines. In the winter season this will be ca. sentially the most pleasant and safe route from the West to California, as no delay need be apprehended on account of inclement weather. Another advantage is the through sleepers from San Fran-New Orleans-the longest ride by rail now in America -- that is, without change of train,

The picturesque scenery of the Texas and New Orleans divisions of the road deserves the attention of the tourist. The Orand Canyon of the Rio Orande of Texes, through which one of the most complicated and wonderful works of railroad engineering bas been built, and where the trains pass the grandest scenery imaginable, most certainty bears comparison with any other landscape view of American railroads. The length of the river, the exquisite perspectives, the ever-winding course beneath the towering and enormous overhanging rocks, continually produce surprises, and force nne to conclude that it is a canyon-ride actually sur-passing those of the Rockies of Colorsdo, and, indeed, all others. In contrast to the narrowness of the Colorade canyon views, the Rie Grande sweeps broadty and majestically at the base of the sandstone terraces and perpendicular walls, reminding one vividly of the beauties of the Hudson river, viewing the ever-winding course of theriver, hundreds of feet beneath the thundering train, thundering train, framed in by the most picturesque of bills and mountains, covered with thick groves of the exotic cactns. The vellow waters of the Rie Orande, stretching toward the orient, glisten and sparkle in the morning sunlight like a field of molten gold, and are mysteriously somber and gloomy in the pale moonlight. The gray rocks and precipitous crags increase the varied colors of the weird landscape, with its peculiar vegetation—the cactus, as welt as a species of alors, the Spanish dagger, shooting high into the air from a luxuriant pal-metto bouquet. The glorious monutains are in view, far and near, lifting up their towering tops from the other side, which is Mexican territory.

Like a light cloud of mist, we see before us the "Devil's river," whose scenery is full of charming effects. Here again the train winds its way around rocky precipiees, under bigb towering rocks, whose tops likewise hang over our narrow path like vaulted roofs, when soddenly the rock hound gateway opens itself upon broad plains, fertile prairies, emersid-liued fields—a broad expanse through which the united waters of the Devil's river and the Ru Grande, fotlow their long passing towards the Gulf of Mexico. Here we breathe the salt air, which comes to us from the distant gulf, and tull'renjoy the wonderful effects of this exhibitating climate.

Most interesting, also, is the ride through the cultivated region of Western Texas, until arriving at the quaint old town of San Antonio, the true type of Western Texas, another land of pleuty. And hence we roll on through a vast valley region of plains and san-battled slopes; past a score of neat villages, embowered in groves of live-oak and pecan trees; past a scenningly ondless chain of flourishing colonies and settlements, numberlies cotton and corufields, over the Brazos bottoms, with their black mold soil; past sugar nulls and plantations; through forests of the Brazos, our-mona trees, weird in their lantastical beards in moss; through open prairies, dotted with cattle or sheep; past the forests and bayons of Houston, the great commercial and railroad center of Bouthern Texas, until we reach and cross at last the Sakine river, the exatern boundary of the Lone Btar State.

Now we are in Louisiana, and traverse one of its rebest and best cultivated regions. We see crystal-clear lakes, picturesque forests, stasied bayous, endless-opening vistas of forest glades, of happy sylvau retreats, of fine plantations, one after the other; booky who diands, rolling prairies doubt with the stock, cotton fields in the highest atate of cultivation, and corn, anger and rice-fields overywhere. We cross the beautiful river Atchafalya

on a fine bridge, and are bemediately at Morgan City, an important center of the lumber trade; and thence through new landscapes of engracous cypress-swamps, of beautiful palmettes, of gigan-tic water likes, the abode of anow-white cranes, turtles, of moccasins, and even of alligators. Bayon after buyon, with levees and canals and plants, and sgain sugar-mills and plantations, orange-groves, the gardens and ancient houses.
At last the suburbs of the Crescent City are at hand, our train is transferred by the ferry to the opposite side of the Mississippi, and our overland journey is emiled. In shant five days we have traversed the continent, a distance of 2,500 miles, without change of train, have viewed the most varied scenary of four distinct climatic and topographic regions-the haxuriant growth of South ern Catitornis, with its beautiful settlements; the "Cactus State" of Arizona, with its dry plains and gorgeons mountains, joined by the bigb messs and plateaux of New Mexico and extreme Western Texas; the blooming prairies of Western Texas proper, with its wonderful vegetation and its moist Atlantic olimate; and at last, the inagmificent scene ry of Louisiana, with its bayons and forcets and swamps. This is the route to be taken by the cinigrant to reach our State, and a more interesting, agrees ble, quick and direct route it would be difficult to imagine. Only about eight days (emigrant time) are required by rail, which is a great gain on the long and tellions transatlantic trip from New York or Baltimere via Chicage or St. Lonia.

#### OLIVE CULTURE.

A correspondent of the Los Angeles Herald, writing from Freeno county, asks the following questions: "If ulivo trees will grow in a very sandy soil, sml if a little frost in winter will kill them? Will the olive grow where the nrange will not, on account of the froat? Where can young trees be bought, and what would be the cost? At they planted the same as peach and other fruit trees, and how long before they will bear?"

Tho Herald replies as follows: "Olive trees will grow in sandy soil or rocky land, or gravelly loam, clayey loam of a stiff character, but do not thrive or hear well in damp soll. They bear more heavily on upland then low land that is often covered by fog. In the latter locality the black scale-bng is likely to infest the tree. The clive is more hardy than the orange, and grows where there are quite severe frosts. In such cases the trees should be teeted by cornssalks, which permit a circulation of air and admit light, and at the same time they pro-teet the leaves from frost. This, for the first year only. The trees are always for sale in Los Angeles, hnt they are more easily propagated by cuttings about two and a half feet in length. These are set in the earth in a hole made with a sharp iron bar to the depth of about twenty inches. After the cut ting is placed in the hole, the latter should be filled with water, which fits the earth completely around the foot of the cutting. The hole is then to be filled up loosely, and a mound of earth piled up around the cutting nearly to the top, and kept there the first year. It sometimes happens that the cutting will not grow the first year at all, but will start out the second year quite vigorously The tree needs but little moisture where there are copious winter rains. In dry climates, about four times a year would be often enough to irrigate tho olive plant. The trees do not bear transportation very weil, and many of them die in consequence of removal; but the cutting is bardy, and is not troubled by gophers. If trees are planted, they will nced several irrigations during the first summer. They are planted like other trees, but their roots are extremely sensitive and need especial care while The tree bears usually in from five to seven years atter planting from the cutling and in from fo six years from planted trees. In regard to the cost of the trees, the latter will be referred to unrecrymen to respond. If the cuttings are large, the top should be protected by a conting of wax or olsy to prevent being deied out by the sunshine. The tree will hear for two thousand years, or more, and the fruit is very profitable."

### SIERRA COUNTY MINES.

Mining in this county is in a very prosperous condition at present. The Forest City Tribune makes the following report of the Ruby mine: "After running the main tunnel 112 feet north, across the channel, a winze was sunk and gravel countered at a depth of four feet. Ten ourloads of dirt were taken out and washed that yielded no and three-quarters onness of gold, or \$3 per load lot of 17 carloads of gravel was then washed, and paid \$7 per load. Aunthor wings was then sunk 50 feet further south on the channel, and 12 carloads of gravel taken out that yielded \$3 per lossi. An incline has been started on the channel this week, shall it is expected to have the new ground sufficiently oponed in a couple of weeks to permit of working quite a large force of men. There is every initication that the inline will yield hand-somely in the near future." The property in which The property in which Mr. Frank Harland is interested lies next to the ground of the linby mine, and the ground is in all respects similar.

THE FOTURE OF CALIFORNIA.

California, like a young glant bathing bls feet in the Pacific, now no longer tools isolated since it is In close communication with the States esst of the The westward course of empire, and all that term implies, has been so rapidly settling up the immense tracts of territory between the Missiasippi river and the Sierras, until now, wave like, It is beating bard against its Eastern confines. California is feeling the warm impulses of that westward growth. California, like Minerva, was born fully grown, but without the experience that characterizes the older and more successful and more substantial States. A quarter of a century ago, California reminded us of the fabled wondo of some glowing Oriental myth where cities spring up in a day from a golden soil. California has be ore it that great ocean, the long highway to the Indies, forming the last link in the belt of civilized enterprise which now olsaps the world, and across whose shores American citizons can gaze upon the oldest civilizations.

California to-day has a great and glorious prospect before it. The State bas of late years entered upon new conditions, perforce the result of passing through a transition peried, aided by its new relative nearness to the "States" and its new peopling. As the star of empire shines for all, we are not sure but that California, with agriculture instead model, as the basis of future prosperity, with new and practical elements in its rapidly increasing population, instead of a code of laws that recognizes gambling as the chief industry, as was the case in its early days, with new and fresh sapirations permeating its society of all classes, with a general disposition to live for the future and a name, taking sdvantage of all its blessings—blessings that are resultant of phenomenal effects—gold, wheat and the grape being the tripodal factor of its future greatness, we are not sure that it may not be said of California—

"Lol I uncover the land, Which I hid of old in the West, As the sculptor uncovers the statue When he has wrought his best.

Oslifornia expecta much from the completed Sonthern Pacific Railway, helicving that it resches the resident of the sonth of Enrope with one hand and will land him to Southern California with the other, and we hear that that Railroad Company are making extensive preparations to let the people of the wine-growing countries of Europe know precisely what they can do in this State. The European fruit-grower finds all his sequired knowledge useful in California, with a much more extended opportunity for its use.

No doubt California has been a sealed book to

No doubt California has been a sealed book in many people in the Atlantic States and in Europe, Ex-Senator David Davis, who has been visiting there, speaks in glowing terms of its climate, the hospitality of its people, and its vest agricultural, horticultural and timber resources, and says what he has seen there is a new revelation to he ever

We also learn that an organized effort is being made to attract the attention of the emigration towards California. Indeed, a comparatively large new population has been added to the State during the past six months, and the premoters of the seheme, coupled with the efforts of the Immigration Burean of the State, now have every reason to expect angmentation of brawn and brain to the State right steadily from this time on, ting up of large ranches there into small forms at reasonable prices, the healthfulness of the climate the certain market for its many productions, the new order of society there, and its nearness to the by reason of the new and additional means of railroad communication, it seems to us are suffi cient to make California a great commonwealth in the near future, as it is to-day the phenomenon of the country in its various products.—Boston Commercial Traveler.

### GROWPH OF LOS ANGELES COUNTY.

The Herald gives some figures showing the won derful growth of this county during the last few years. It says: In 1872 the total value of all the property in the county was \$10,881,164, while in 1889 it was \$25,459,098, an increase of \$14,577,934 in eleven years. As late as 1878 there were 5850 acres in vineyard, which has expanded within five years to 20,000. In 1872 only 1,243,990 gallons of wine and 15,000 gallons of brandy were mann factured, while in 1883 the figures had risen to 4,000,000 gallons of wino and 250,000 gallons of brandy. The 23 miles of railway in 1872 have grown to 173 miles, and the 43,540 bushels of corn vn bave increased to about 1,500,000 bushels, While no wheat was found by the Assessor in 1873 he has assessed 2,000,000 bushels the current year. Fifty thousand bushels of tienns are also reported. The number of orange trees has increased from 103,500 in 1878 to 526,640 in 1883. The Heruld says: "We do not think that this compendious ture of growth of production can be surpassed to the bistory of the world in an equal period."

### OIL

Last year the oil wells of the State yielder ov r 500,000 gallons of oil. The prospect is that this year the yield will be double that amount.

SILK CULTURE

Relix Gillet, of Nevada City, contributes to the Callivator's Gulde an article on silk culture in which he gives some valuable hints on the subject-

An experience of fifteen years in Csitfornia, where I have been growing and testing all the varieties of the mulhorries known, and raising sills worms, a close study of everything pertaining of that industry, in fact, a thorough understanding of the whole business acquired by actual practice, may give me the right to speak as authoritatively as I do through this paper.

Silk culture may be regarded as a very delicate industry, well fitted to feralulae flugers, to woman's tender cares; but, if it is a light and most interesting business, rendered so much more luteresting through the wonderful changes of the prec jous insect, it is at the same time a business that requires most of our constant cares, and which must be understood pretty well, in all its corpplicated details, to enable us to arrive at a satisfactory result. To all who, in the expectation of in-oreasing somewhat your little income, intend to invest or are investing in the silk business, planting mulberry trees, building cocoonerles, furnishing them with neccessary apparatus, etc., Is y: Go st it slow; feel your way first; do not plant too many trees for a start; plant them where they will not be in the way in ease you change your mind and quit raising silk-worms; plant them where they will be an ornament to your place; and, by the way, let m tell you that the mulberry makes a beautiful shade tree. Commence by raising but a few hundred worms; get acquainted with the latter's changes before raising a large number. and moultings Teach your children to attend to worms' wants, to pick leaves and feed the worms with the attention that so feeble and fragile insents have a right to expeot from us. Always bear in mind that, if silk onliure or the raising of silk worms is a light and pleasant occupation, it nevertheless requires the most minuto and attentive cares.

Plant none but large leaved kinds, and do not

keep on your place more than half a dozen or so of the common Morus alba, a first-class variety for silk-worm feeding, but yielding a thin, small lest, of shw and tedious picking—in a word unprofilable to keep. That leaf, which is very tender, will do first-rate during the first, or two first agea of the inscot's life. Train your trees, (unless they are planted with a view to make shado trees of them), as dwarfs, or rather bush-like, branching out at eighteen thebes from the ground, and prana them back only every other year; the trees so trained are large and of easy picking. Planting seedling white mulherry or common Morus alba trees is simply a waste of time and money; and yen will find out to your dismey, that, while there is but a small profit feeding silk-worms even with the large leaves, there is still less in feeding with the small leaf of the Morus alba. Feed the worms with picked leaves, cut them before feeding from fine to coarse during the twn first ages, serving them entire to the third age to apinning time, but do not feed with branches, a system condemned everywhere sud practiced only by the lazy Turk, or recommended by mexperienced people who know nothing about silk-worm raising and the mutberry tree itself. So small are the profits in raising silk-worms, in the absence of a protective tariff, that, to make silkworm raising pay something in California, wa must by all means:-

lat -Render labor as light as ressible.

1st -Render labor as light as possible.

2d-Make the trees yield the largest quantity of leaf.

3d-With a given amount of leaf, produce the largest quantity of silk.

4th-Plant none but large leaved kinds of mul-

6th-Raise none but yellow annual races from Europe,

# GRAPES-A CROP THAT VIELDS A PROPIT OF SDIO AN ACRE.

It is remarkable that there are not more and laror vineyards in the vicinity of Stockton than there are. There is no surer crop raised in California than grapes, nor any crop the market price of which ts less variable. Nor is there a crop that is travested and marketed at less exposee. The price of Mission grapes this year is \$18 to \$19 a ton, and the yield in thin vicinity year after year is from six to eight tous to the sere. T. A. Crawford, who is purchaslog the product of many vineyards for a San Franolseo firm, yesterday told of a man who sold his eron on eight acres on the vines for \$850. The whole cost of cultivating that crop was less than \$30. Noarly all the vineyards in this vicinity are yielding from eight to twelve tone to the zero, and there is lively domaid for the grapes. Agents someed the country, engaging the copy in advance. For foreign varieties of grapes, the price per tun in Sun Francisco has this year reacted as high as \$54. The soil around Stockton is unsurpassed for grapes The Lashi Brothers sold their crop, pleked, at \$19-50 a tion. They are increasing their emoyard too acrea a year, and having excellent facilities for irrigation, they will bring their vines into There is no surnr road to riches than to ident vineyards, for whother the grapes are made tuto wine here, or sulpped, they will make a paying orogeovery year. - Stockton Herald.



man Pf.









